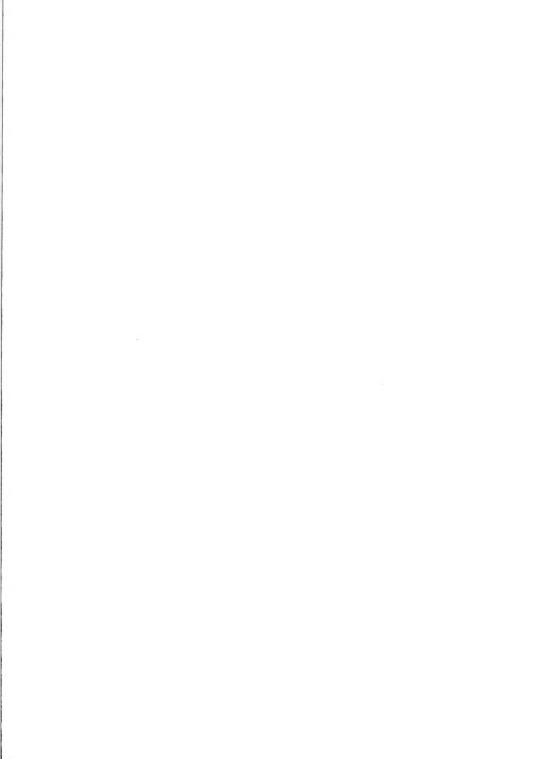


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# STATE OF CALIFORNIA The Resources Agency

epartment of Water Resources

BULLETIN No. 130-66

# HYDROLOGIC DATA: 1966

Volume II: NORTHEASTERN CALIFORNIA

Appendix D: SURFACE WATER QUALITY

Appendix E: GROUND WATER QUALITY

DECEMBER 1967

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI

Director

Department of Water Resources

	<b>N</b> .	

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### METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
Inch (in)	2.54 Centimeters
Foot (ft)	0.3048 Meter
Mile (mi)	1.609 Kilometers
Acre	0.405 Hectare
Square mile (sq. mi.)	2.590 Square kilometer
U. S. gallon (gal)	3.785 Liters
Acre foot (acre-ft)	1,233.5 Cubic meters
U. S. gallon per minute (gpm)	0.0631 Liters per second
Cubic feet per second (cfs)	1.7 Cubic meters per minute
Part per million (ppm)	l milligram per liter (mg/l)
Part per billion (ppb)	l microgram per liter (ug/l)
Part per trillion (ppt)	l nanogram per liter (ng/l)
Equivalent per million (epm)	l milliequivalent per liter (me/l)

## BULLETIN 130-66

## Volume II

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#### ABSTRACT

Appendixes D and E of Volume II, Bulletin 130-66, present analytical values for dissolved minerals, trace elements, miscellaneous constituents, salinity (in the Delta) and water temperatures for selected surface water quality stations, and similar information for selected wells in the Sacramento Drainage Area and the northern portion of the Lahontan Drainage Area.

# APPENDIX D SURFACE WATER QUALITY



TABLE D-I SAMPLING STATION DATA AND INDEX Northeastern California

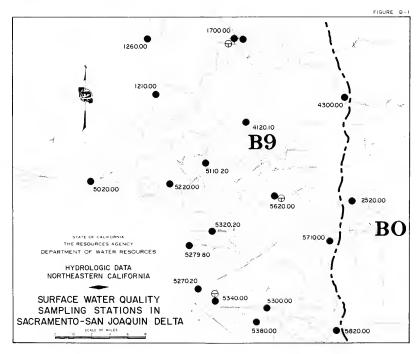
Station	Station Number	Lacation MDB 8 M	Beginning <sup>a</sup> of Record	Frequency b of Sampiling	Analyses on Page
American River, Middle Fork near Auburn (22b)	A7 3100.00	12N/9E+6	7-58	В	59, 96
American River at Nimbus Dam (22a)	A7 1110.00	9N/7E-16	11-58	М	58, 95, 96
American River at Sacramento (22)	AO 7140.00	8 <b>N/5E-3</b>	4-51 9-62	M A	33, 95, 96
American River, South Fork near Lotus (22c)	A7 4150.00	11N/9E-11	7-58	В	60, 9h
Antelope Creek near Mouth (88c)	AO 4520.00	26N/2W-17	10.58	М	27, 96
Antelope Creek near Red Bluff (88c)	A4 5110.50	27N/2W-8	10.58	М	48, 96
Battle Creek near Cottonwood (88b)	A4 7110.00	29N/2W-6	4-58	м	49, 96
Bear River near Wheatland (78)	AO 6550.00	13N/5E-3	12-51	м	32, 95, 96
Big Chico Creek at Chico (85a)	AO 4250.00	25N/TE-58	1-59	М	26, 96
Big Chico Creek near Chico (85)	A4 2110.00	22N/2E-9	7-52	М	46, 97
Butte Creek near Chico (84)	A4 1110.00	22N/2E-36	7-52	М	45, 97
Cache Creek near Capay (80)	A8 1120.00	10N/2W-8	12-51	м	61, 95, 97
Cache Creek near Lover Lake (42)	A8 1350.00			М	62, 97
Cache Creek, North Fork near Lower Lake (79)	AB 2050.00			М	64, 97
Calaveras River below New Mogan Dam (16c)	B2 5300.00	3N/10E-1	1-64	М	71, 97
Calaveras River above New Rogan Reservoir (16d)	B2 5898.50	4N/11E-13	1-64	М	72, 97
Calaveras River at Jenny Lind (lba)	BO 2590.00	3N/10E-27	4-51	М	68, 97
Calayeras River near Stockton (16b)	BO 2520.00	2N/6E-26	7-58	м	67, 95, 98
Clear Creek near Igo (12d)	A3 6130.00	31N/6W-27	8-58	М	44, 98
Clear Lake at Lakeport (41)	A8 1720.00			м	63, 98
Colusa Trough near Colusa (87)	AO 2976.00	16N/2W-35	7-62	м	19, 98
Cosumnes River at McConnell (94a)	B- 1125.00	6N/6E-20	7+58	В	66, 85, 98
Cosumnes River at Michigan Bar (94)	B1 1150.00	8 <b>n/8e-</b> 36	7-52	В	69, 98
Cottonwood Creek near Cottonwood (12b)	AO 3520.00	29N/3W-7	4-51	м	23, 98
Cottonwood Creek below North Fork Cottonwood Creek (11a)	AO 3540.00	29N/6W-2	8-58	м	24, 98
Cottonwood Creek, South Fork above Corrontood Creek (11b)	AO 3595.00	29N/4W-17	11-58	м	25
Cow Creek near Millville (88a)	A4 8110.00	31N/3W-32	8=58	м	50, 99
Delta Cross Channel near Walnut Grove (98)	B9 1700.00	5 <b>N/4E-</b> 35	9~52	М	76, 95, 99
Elder Creek at Gerber (95a)	AO 3320.00	25N/3W-2	1-59	м	21, 99
Elder Creek near Paskenta (13c)	A3 3110.00	25N/6W-14	10-58	м	43, 99
Feather River, Middle Fork near Merrimac (19b)	A5 5100.00	21N/6E-2	7-63	м	55, 99
Peather River at Nicolaus (20)	AO 5103.00	12N/3E-12	4-51	м	29, 95, 99
eather River, North Fork at Big Bar (19a)	A5 3140.00	23N/5E-32	7-63	м	53, 99
Feather River near Oroville (19)	A5 1140.00	19N/4E-2	4-51	м	51, 95, 99
Feather River below Shanghai Bend (20a)	AO 5120.00	14N/3E-11	7-58	м	30, 100
Feather River at Sutter Butte Canal, near Gridley	AO 5177	19N/3E-33	7-56	Continuous	118
Feather River, South Fork below Ponderosa Dam (19c)	A5 6080.00	20N/6E-33	7-56	м	56, 100
Peather River, West Branch, near Yankee Hill (19d)	A5 2100.00		10-64	м	52, 100
Feather River, at Yuba City	AO 5135.00	15N/3E-23	7+64	Continuous	117
Grant Line Canal at Tracy Road Bridge (103a)	B9 5300.00	1S/5E-29	7-58	М	32, 100
Indian Creek near Crescent Mills (17d)	A5 4320.00	26N/9E-25	4-51	В	54, 100
Indian Slough near Brentwood (107)	B9 5279.80	1N/3E-23	9-52	м	100

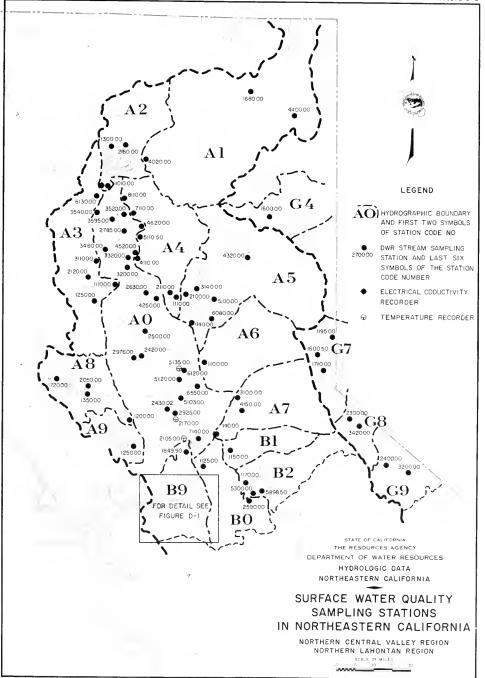
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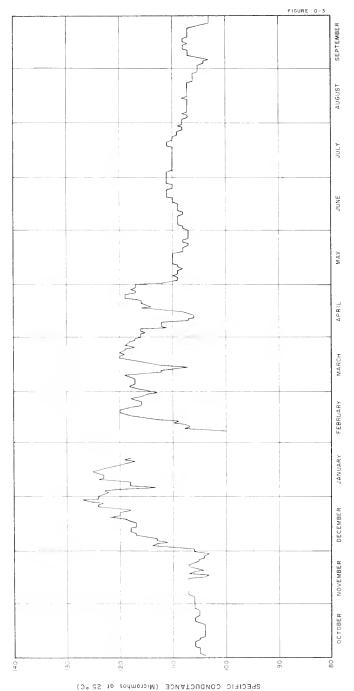
b M-Monthly, B - Bimonthly, Q - Quarterly, S - Semiannually, A - Annually, I - Irregular

SURFACE GATE: QUALITY
SAMPLING STATIONS
NTRAL VALLEY REGION (NO. >)

				SAMPLING STATEOUS			
Station No.	Station Name		CLNT	RAL VALLLY REGION (NO)			
A0 2105	Sacramento River at Sacramento	A5	1140.00	Feather River near Oroville(19)	В9	5020.00	San Joaquin River at
	Weir			Feather River, West Branch			Antioch (28)
AO 2170	Sacramento River at Fremont			near Yankee Hill (19d)	B9	5110.20	Old River at Mandeville
	Weir, West End	A5	3140.00	Feather River, North Fork at			Island (112)
	Sacramento River at Colusa (13b)			Big Bar (19a)	89	5220 00	Rock Slough near Knightsen
AU 2430.U2	Sacramento River above Colusa	A5 (	4320 00	Indian Creek near Crescent			(109)
	Basin Orain (14b)			Mills (17d)			Italian Slough near Mouth(105)
	Sacramento River at Butte City (87a)	A5	5100 00	Feather River, Middle Fork near Merrimac (19b)	В9	5279.80	Indian Slough near Brentwood (107)
	Sacramento River at Hamilton City(13) Sacramento River at Bend (12c)	4.5	Cours on	Feather River, South Fork	20	£ 3. 10. 00	Grant Line Canal at Tracy
	Sacramento Slough near Knight	4.5	6050.00	below Punderora Dam (19c)	В9	3300.00	Road Bridge (103a)
NO 2323.00	Landing (14a)	16	1100.00		89	5320-20	Old River at Orwood Bridge (108)
Att. 2976.00	Colusa Ba in Drain near Colusa (87)			American River at Nimbus			Old River at Clifton Court
	Thome Creek near Mough (95b)			Uam (22a)			Ferry (104)
A0 3320.00	Elder Creek at Gerber (95a)	A7	3100.00	American River, Middle Fork	В9	5380 00	Old River near Tracy (103)
	Red Bank Creek near Red Bluff (88d)			near Auburn (22b)	В9	5620	San Joaquin River at Rindge
	Cottonwood Creek near Cottonwood(12b)	A.7	4150.00				Pump
AU 3540 00	Cottonwood Creek below North Fork			near Lotus (22c)	В9	5620 00	Stockton Ship Channel on
	Cuttonwood Creek (Ila)			Cache Creek near Capay (80)			Rindge Island (100)
AO 3595.00	Cottonwood Creek, South Fork above			Cache Creek near Lower Lake (42)	В9	5710.00	
	Cottonwood Creek (ilb)			Clear Lake at Lakeport (+1)			Bridge (101)
	Big Chico Creek at Chico (85a) Antelope Creek mear Mouth (88c)	40	2010 00	Cache Creek, North Fork near Lower Lake (79)	39	5820 00	San Joaquin River at Mossdale
	Paynes Creek n.ar Red Blutf (482)	1.0	1250 00	Putah Creek near Winters (81)			Bridge (102)
	Feather River at Nicolaus (20)			Consumnes River at McConnell		1.4	HONTAN REGION (No. 6)
	Feather River below shanghai			(94a)		60	nontrar accross (no. 5)
			2520 00				
		BO		Calaveras River at Stockton	G4	1600 00	Susan River at Susanville(17b)
AO 5135.00	Bend (20a) Feather River at Yuba City	ВО	2720.00	Calaveras River at Stockton (160)			Susan River at Susanville(17b) Truckee River at Farad (53)
					G7	1195.00	
A0 6120.00	Feather River at Yuba City	80	2590.00	(16b) Calaveras River at Jenny Lind (16a)	G7 G7	1195,00 1600.50	Truckee River at Farad (53)
A0 6120.00 A0 6550 00 A0 7140 00	Feather River at Yuba City Yuba River at Mary ville (21) Bear River near Wheatland (7b) American River at Sacramento (22)	B0 B1	2590.00 1150.00	(16h) Calaveras River at Jenny Lind (16a) Consummes at Michigan Bar(94)	G7 G7 G7	1195.00 1600.50 1710.00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, West Fork at
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00	Feather River at Yuba City Yuba River at Mary ville (21) Bear River near Wheatland (7b) American River at Sacramento (22) Pit River near Montgomery Creek (17)	B0 B1	2590.00 1150.00	(16b) Calaveras River at Jenny Lind (16a) Consummes at Nichigan Bar(94) Mokelumne River below	G7 G7 G7 G8	1195.00 1600.50 1710.00 2300.00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, West Fork at Woodfords (115a)
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00	Feather River at Yuba City Yuba River at Mary vill (21) Bear River near Wheatland (7b) American River at Sacramento (22) Pit River near Montgomery Creek (17) Pit River near Canby (1/a)	B0 B1 B2	2590.00 1150.00 1170.00	(16h) Calaveras River at Jenny Lind (16a) Consummes at Nichigan Bar(94) Mokelumne River below Commanche Oam(23a)	G7 G7 G7 G8	1195.00 1600.50 1710.00 2300.00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, West Fork at Woodfords (115a) Carson River, East Fork near
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00	Peather River at Yuba City Yuba River at Mary-ville (21) Bear River near Wheatland (7b) American River at Sacramento (22) Pit River near Montgomery Creek (17) Pit River near Canby (1/a) Pit River, South Fork near	B0 B1 B2	2590.00 1150.00 1170.00	(15b) Calaveras River at Jenny Lind (16a) Consummes at Michigan Bar(94) Mokelumne River below Commanche Oam(23a) Calavera: River below New	G7 G7 G7 G8	1195,00 1600,50 1710 00 2300 00 3420 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, West Fork at Woodfords (115a) Carson River, East Fork near Markleeville (115)
A0 6129.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4490 00	Feather River at Yuba City Yuba River at Maryv-111e (21) Bear River near Wheatland (7b) American River at Sacramento (22) Pit River near Conditionary Creek (17) Pit River near Canby (1/a) Pit River, South Fork near Likely (1/a)	B0 B1 B2 B2	2590.00 1150.00 1170.00 5300.00	(16) Calaveras River at Jenny Lind (16a) Consummes at Michigan Bar(9a) Mokelumme River below Commanche Omm(23a) Calaveras River below New Rogan Dan (16c)	G7 G7 G7 G8	1195,00 1600,50 1710 00 2300 00 3420 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, West Fork at Woodfords (115a) Carson River, East Fork near Markleeville (115) Malker River, West near
A0 6129.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4490 00 A2 1010.00	Peather River at Yuba City Yuba River at Mary ville (21) Bear River near Wheatland (76) American River at Sacramento (22) Pit River near Montgomery Creek (17) Pit River near Canby (17a) Pit River, South Fork near Likely (19a) Sacramento River at Kenwick (12)	B0 B1 B2 B2	2590.00 1150.00 1170.00 5300.00	(16): Calaveras River at Jenny Lind (16a): Consumnes at Hichigan Bar (94): Mokelumme River below Commanche Gam(27a): Calaveras River below New Husan Dam (16c): Calaveras River abuve New	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (3) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Moodfords (115a) Car on River, East Fork near Markleeville (11%) Malker River, Nest near Coleville (116)
A0 6129.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4400 00 A2 1010.00 A2 1300 00	Feather River at Yuba City Yuba River at Mary will (21) Bear River near Wheatland (7h) American River near Wheatland (7h) Pit River near Montgomery Creek (17) Pit River near Canby (1)a Pit River, South Fork near Likely (19a) Sacramento River at Meswik (12) Sacramento River at Delta (11)	B0 B1 B2 B2 B2	2590.00 1150.00 1170.00 5300.00 5898.50	(16b) Calawera River at Jenny Lind (16a) Consumers at Richigan Bar (9a) Nukelumer River below Comanche Dam(23a) Calawera - River below Nes Hugan Dam (16c) Calawera - River abuse Nes Hugan Ban ervourt (16d)	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Woodfords (115a) Carson River, East Fork near Markleeville (117) Malker River, West near Coleville (116) Malker River, West near Coleville (116) Malker River, Isat near
A0 6129.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4400 00 A2 1010.00 A2 1300 00	Peather River at Yuba City Yuba River at Mary ville (21) Bear River near Wheatland (76) American River at Sacramento (22) Pit River near Montgomery Creek (17) Pit River near Canby (17a) Pit River, South Fork near Likely (19a) Sacramento River at Kenwick (12)	B0 B1 B2 B2 B2	2590.00 1150.00 1170.00 5300.00 5898.50	(16): Calaveras River at Jenny Lind (16a): Consumnes at Hichigan Bar (94): Mokelumme River below Commanche Gam(27a): Calaveras River below New Husan Dam (16c): Calaveras River abuve New	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (3) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Moodfords (115a) Car on River, East Fork near Markleeville (11%) Malker River, Nest near Coleville (116)
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4400 00 A2 1010.00 A2 1300 00 A2 2150 00	Feather River at Yuba City Yuba River at Maryv-ville (21) Bear River near Wheatland (75) Pit River near Montgomery Creek (17) Pit River near Canby (17) Pit River near Canby (17) Likely (17a) Sacramento River at Kessisk (12) Sacramento River at Wessisk (12) Sacramento River at Delta (11) McCloud River above Shata	B0 B1 B2 B2 B2 B9	2590.00 1150.00 1170.00 5300.00 5898.50 1210.00	(16): Calaveras River at Jenny Lind (16a) Consumnes at Hichtean Bar (94): Mokelumne River below Commanche Gam(27a): Calaveras River below New Hogan Dam (16c) Calaveras River above New Hogan Reservoir (16d) Sacramento River at Rio Vista	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Woodfords (115a) Carson River, East Fork near Markleeville (117) Malker River, West near Coleville (116) Malker River, West near Coleville (116) Malker River, Isat near
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4400 00 A2 1010.00 A2 1300 00 A2 2150 00	Feather River at Yuba City Yuba River at Mary-vill (21) Bear River near Wheatland (7h) American River at Sacramento (22) Pit River near Montgomery Creek (17) Pit River near Canby (17a) Pit River, South Fork near Likely (19a) Sacramento River at Reswisk (12) Sacramento River at Delta (11) McCloud River above Shasta Lake (18)	B0 B1 B2 B2 B2 B9	2590.00 1150.00 1170.00 5300.00 5898.50 1210.00	(16h) Calayeras River at Jenny Lind (16a) Consumes at Nichisan Bar (94) Mokelumes River below Comanche Gund(20a) Calayeras River below New Royan Das (16c) Calayeras River abow New Hogan Reservoir (16d) Sacramento River at Rio Vista (16)	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Woodfords (115a) Carson River, East Fork near Markleeville (117) Malker River, West near Coleville (116) Malker River, West near Coleville (116) Malker River, Isat near
A0 6120.00 A0 6550 00 A0 7140 00 A1 1020.00 A1 1680.00 A1 4400 00 A2 1010.00 A2 1300 00 A2 2150 00 A3 1110.00 A3 1250 00	Feather River at Yuba City Yuba River at Haryv-ville (21) Bear River near Wheatland (7b) American River at Sacramento (22) Pit River near Montgomery Greek (17) Pit River near Canby (17a) Pit River, South Fork near Likely (13a) Sacramento River at Beita (11) McCloud River above Shatta Lake (18) Stony Cicek below Black Butte Dam (13c) Stony Creek near Fruto (131)	B0 B1 B2 B2 B2 B9	2590.00 1150.00 1170.00 5300.00 5898.50 1210.00	(16)- Calayeras River at Jenny Lind (16a) Consumes at Nichigan Bar (9a) Mokelumen River below Commanche Dame(Zah) Calayeras River below New Howan Dam (16a) Calayeras River below New Calayeras River of New Calayeras River (16a) Sacramento River at Rio Vista (16) Vista (110) Sacramento River at Rio Vista (16) Vista (110) Sacramento River at Malnut	G7 G7 G8 G8	1195,00 1600,50 1710 00 2300 00 3420 00 2400 00	Truckee River at Farad (53) Truckee River near Truckee(52) Lake Tahoe at Tahoe City(38) Carson River, Mest Fork at Woodfords (115a) Carson River, East Fork near Markleeville (117) Malker River, West near Coleville (116) Malker River, West near Coleville (116) Malker River, Isat near
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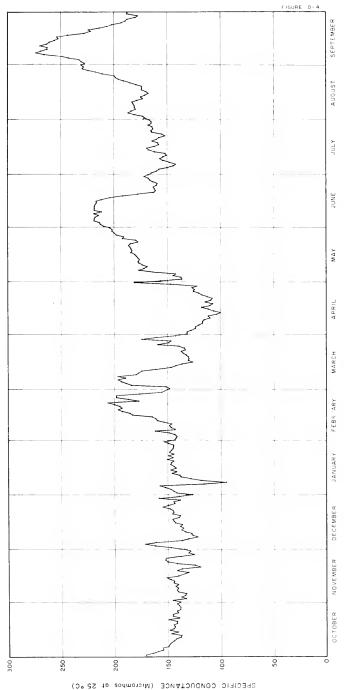






AVERAGE DAILY SPECIFIC CONDUCTANCE - SACRAMENTO RIVER AT KESWICK DAM (STA. A2 1010.00)

OCTOBER 1965 THROUGH SEPTEMBER 1966



AVERAGE DAILY SPECIFIC CONDUCTANCE - SACRAMENTO RIVER AT WALNUT GROVE (STA B9 1650.10)

OCTOBER 1965 THROUGH SEPTEMBER 1966

#### Table D 2

An explanation of column headings follows:

- <u>Lab</u> 5000 U. S. Geological Survey
  5050 Department of Water Resources
- G.H. The instaneous gage height in feet above an established datum.
  - $\underline{\underline{Q}}$  The instantaneous discharge measured in cubic feet per second (cfs).
  - $\underline{\text{DO}}$  The dissolved oxygen content in milligrams per liter is listed first and is followed by the percent saturation.
  - $\underline{\underline{EC}}$  The specific conductance in micromhos at 25° Centigrade.
  - TDS Gravimetric determination of total dissolved solids in milligrams per liter.
  - SUM Determined by addition of analyzed constituents.

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CONS	D D	INTO RI	:	:	;	:	;	:	;	5.4. 8.4.5 3.5	:	;	;	4. 0.4. 3.8.
MINERAL CONSTITUENTS	CA	SACRAMENTO	:	1	;	1	:	1	1	15 640 63	;	:	1	- u -
۳. م م	6		χ. Τ	900	144	110	150	167	148	135	131	122	151	128
0 J	FLD		8.5	A.1	7.3	7.7	9.2	7.4	A.7.3	7.4	7.3	7.5	7 · ·	7.9
7 7			4 4	η. Ο	بر 13	H 4	I.	5,2 F	ب ج ب	α L	6.3 F	6.2 F	5.2 F	٥٥ <b>ټ</b>
c	547		10.4	10.4	10.9	11.5	1.0	11.4	o 1	0.4	10.6	10.0	10.0	10.3
1	c		71.11 A2An	71.03 H090	71.88 9770	83.79	77.13 5000 23800 5050	71.93	71.29	71.21	71.25	172,43	71.99	70.50
NUMBER PAD	SAMP, ER		5010	5000	5000	5000 5050	5000 2 5050	5000	5000	5000 5050	5000	5:00 <b>1</b> 50=0	5000 1. 5050	- 202
z	TIME SA		402500.00 10706765 1145	A02500.00 11/03/65 1315	402500.00 12/01/65 1230	102500.00 01/05/66 1320	402500.00 02/08/66 1115	402500.00 03709766 0915	402500.00 04/07/46 0825	402500.00 05/05/46 0825	402500.00 06/08/66 1000	402500.00 07/13/66 1210	402500.00 08/11/66 0770	#02500.00 09/14/66 1000

MINEMAL ANALYSIS OF SURFACE WATER

<u> </u>	Z Q		1 °	رم 0	50 0	a c	, c	20	αc v	<b>6</b> 0	e 0	¢ 0	53 0	90
LITER	SUM		:	;	:	:	:	:	:	124	:	:	:	104 108
S PER	5018		:	:	:	:	:	:	:	02	:	:	:	20
MILLIGRAMS PER	r		0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0 • 0	0.0	0.0
MIL	ı.		;	:	;	:	:	:	:	;	:	;	;	: ]]
α	€ UN		:	:	:	:	;	:	:	0.9 .01	:	:	:	0.7 .01
FR PLITE VALUE			.08	4.0.	90.	3.7	.17	3.6	3.6	7.5 9.18	.17	3.1	3.5	4.2 .12
EN LIT	504		;	:	;	:	1	;	;	17 •35 18	:	:	:	9.0
MILLIGBRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT PERCTANCE VALUE	HC03	(14b)	1.16	1.10	1.02	73	1.18	83 1.36	1.21	84 1,38 72	1.34	69	72 1.18	85 1,39 81
MILLI MILLI PERCE	CO3	TROUGH (	0 • 0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0	0.0	0	0.0
15 IN	¥	COLUSA 1	;	:	:	:	:	;	;	1.1 .03	:	;	:	1.1 .03
TITUEN	A A	ABOVE (	. 5.	6.1	0.5 2.5	8. 3.7.	80 • • 50 x at	8.6 •37	.€. .€.	13	.55	8. •34	9.4	01. 25.
MINERAL CONSTITUENTS IN	M G	O RIVER	;	:	;	;	;	:	:	7.5 .62 32	;	:	:	8.0 .66 37
MINERA	CA	SACRAMENTO RIVER ABOVE	1	;	;	:	;	;	:	3.4 3.6 3.6	:	;	1	13
ر د م	<b>1</b> C	SS.	135	126	126	150	163	177	149	190	178	137	142	167
ر ا ا	<b>1</b>		α <b>ν</b> γ ,	8 L	7.3	8.1 7.3	7.5	H.1	7.3	7.8	8°.7	H.1	8.1	4. K
О 2			ر: آ	7. F	ς π	6.5 F	8. F	53 F	4. 5.	5 to F	14 14 14	r a	47 F	47 F
C	SAT		66	10.1 96	₹6 46	11.0	11,3	11.3	6 9 9	α • α 4 π	0 4 H	9.9	104	9.8 106
, 1			19.30 8770	19.42 H770	5000 13600 5050 13600	24.49 5000 16400 5050	œ	21.51 9730	23.11	18.80 6730	18.53 8260	19.45 9890	19.52	19.67 8840
α ω α φ Ψ.Ο.ν.	SAMP, FR		5000 5050	5000 5050	5000 1 5050	5000 1 5050	32.5 5000 25800 5080	5000 5050	5000 5050	5000 5050	5000 5040	5000 <b>50</b> 50	5000	5000 <b>5050</b>
Z	TIME S		402440.02 10706/65 1830	A02430.02 11/03/65 1000	A02430.02 12/01/65 0930	A02430.02 01/05/66 0925	A 0 2 4 3 0 . 0 2 0 2 7 0 8 7 6 6 0 8 2 5	402440.02 03/09/66 1315	A02430.02 04/07/66 1045	402430,02 05/05/66 1045	402430.02 06/08/66 0700	A02410.02 07/13/66 1505	A02430.02 08/11/66 1020	A02430,02 09/14/66 1230

MINERAL ANALYSIS OF SUBFACE WATER

	1 5		<b>₹</b>	<b>r</b> 0	ů –	4 4	€ m	t c	o ⊂	٦ 4 0	ı, e	1 C	5°C	<b>n</b> 3 c
	LITER TOS SUM		t	1	1	:	;	;	;	g =	;	;	1	7 7
	MS PER S102		:	;	;	;	1	;	;	50	;	;	:	6
	MILLIGRAMS PER A SIO2		0.0	0.0	0 • 0	0.1	0.1	0.1	0.0	۰.0	0 • 0	0.0	0	0.0
	Σ		;	:	:	;	:	;	;	;	;	;	:	:
	F P S		:	;	;	;	;	:	;	0.0	:	;	:	1 · · · · · · · · · · · · · · · · · · ·
	TER VALUE CL		90.	.06	.12	5.5	.1.2	3.1	5.00	e e e	5.5	90.	.06	4.0°
	PER LI		;	:	;	;	;	:	;	8.0 .17	;	;	;	6.50
	MILLIGRAMS PER LITFR MILLIFOUIVALENT PFW LITFR PFRCENT REACTANCE VALUF 03 HC03 SO4 CL N	а)	1,10	66 1.08	1.15	55 • 85	1,15	1.30	1.20	70 1.15 82	69	1.02	1.05	68 1.12 84
	MILLI MILLI PERCE CO3	butte city (87a)	0.0	0.0	o • 0	0.0	0 • 0	0.0	0.0	0 • 0	0.0	0.0	0 • 0	• 0
	21 S T S	BUTUE C	:	:	;	;	:	:	:	0.0	:	:	;	1.0 20.5
	MINERAL CONSTITUENTS IN CA MG NA K	RIVER AT	5.5	6.5 .24	.31	7.0	3.7	8.1 3.4	.31		.24	6.1	6.3	.5.
1	L CON!	ENTO R	:	1	:	;	;	;	;	6. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	;	:	;	4 . 0 . 4 . 0 . 4 .
	MINERA CA	SACRAMENTO	;	;	;	;	1	1	;	51. 04. E4	;	;	;	0 t 0 t 0
	EC FLDA FLD		451	861	146	110	150	167	148	135	16.1	122	5	128
	FLAR		7.5	A.1	7.3	4.4	A	7.4	A. 7.	7.4	7.3	7.4	7.4	7.9
	7 7 7		ъ. 4	Q. Pr	5 3 F	и Н 1	1 1	ج 1	μ. 	T.	۶. ۴	ر آ	7 5	<b>ند</b> درد
	D0 SAT		10.4 108	10.4	10.9	11.5	1.0	11.4	σ τ • σ	7.0	10.6	10.01	10.0	10.3
	i i		71.11	71.03 A090	71.AR	83.79 6500	77.13 3800	71.93	71.29	71.21 A480	71.25 9000	72,43 11300	71.99	70.50 4940
	NUMBER LAH SAMPIER		5000 5050	5000°	5050	83,79 5000 44500 5050	77.13 5000 23800 5050	5000	5050	5000 5050	, 0000	5000 11 5050	5000 1c	500°1 6
	STATION NUM DATE I		402500.00 10/06/65 1145	402500.00 11/03/65 1315	A02500.00 12/01/65	A02500.00 01/05/65 1320	00.00500 02.007.46 1115	A02500.00 03/09/66 0915	00,500,00 04/07/66 0825	00.000.000 05.005.46 0825	A02500.00 06/08/66 1	402500.00 402500.00 7713766 5	\$02500.00 08/11/66 08/0	402500.00 09/14/46 1000

TABLE D 2

MINERAL ANALYSIS OF SUBFACE WATER

Į	I O Z		<b>4</b> c	60	40	<b>6</b>	510	m m	e G	e c	50	\$ 0	<b>4</b>	9 0
	SUM		:	1	:	:	;	:	:	98	:	:	:	76 R2
MILLIGRAMS PER	5102		;	:	:	:	:	:	:	19	:	:	:	50
-L16RA'	œ		0.0	0 • 0	0.0	0.0	0.1	0.0	0.1	0 • 0	0 • 0	0.0	0.0	0.0
¥	u		:	:	:	:	:	:	1	:	:	:	:	:
α	E0N		:	:	:	:	1	:	1	.01	:	:	:	0.0
TER ER LITI VALUE	7		2.5	2.8 0.8		1.5	90.	3.3	3.2	.05 .05 .05	2.4	.06	5.0	8.1 8.0.
PER LI	\$04		:	:	;	:	;	;	1	7.0 .15	:	:	:	5.0 • 10
MILLIGRAMS PER LITER MILLIGOUIVALENT PEG LITER PFRCENT REACTANCE VALUE	нсоз	(13)	64	1.08	1.13	45.	1.03	1.21	69	67 1,10 83	1.05	63	63 1.03	65 1.07 87
MILLI	500	I CIIX (	0 • 0	0.0	0.0	0.0	0 • 0	0 * 0	0.0	0.0	0.0	0.0	0.0	0.0
TS 1N	¥	SACRAMENTO RIVER NEAR HAMILION CITY	;	:	:	1	:	:	;	1.0	1	:	:	1.0
MINFGAL CONSTITUENTS IN	Z A	R NEAR 1	4.6 4.5.	6.7	a ∈ • €	3.6	\$ . T	8.0 •35	4.5	6.5 45.	6.6	5.3	. 3.	6.1 55.
L CONS	Σ	TO RIVE	1	:	:	:	:	:	:	5.1 .42 32	:	:	1	5.5 3.7 3.7
MINFA	v C	SACRAMEN	;	;	:	:	1	1	;	5.04.	:	1	:	44.
ا الا ا	<b>1</b>	V1	122	124	138	5	0 - 1	191	138	2	127	118	117	121
g _			9.1	7.9	7.3	7.3	7.3	8.1	x.7	A.7	7.7	8.7	ж.	7.9
2	:		a u	R. Pr	5.	14 4	4	is is	ь	57 1	ę.	46 F	ب ب	i.
ć	SAT		10.4	10.4 94	10.7	11.e 94	11.4	11.5 103	10.0	10.01	10.4	10.3 116	10.4 99	10.n 97
1			24.17 7834	28.47 8096	28.49 7779	44.45	31.06 5000 12320 5050	24.04	28.71 7495	29.75 5000 10990 5050	28.87 8537	29.40 5000 11770 5050	29.40 10500	24.26 4194
A de de	SAMPLER		5010 5050	5050	5000 5040	5000 77290 5050	5000	5000 5050	5010 5050		5000 5040	•	29.4 5000 10500 5050	5000 5000
STATTON NUMBER			402640.00 10704765 2251	00-0030-00 011/07/65 04-00	402630.00 12/01/45 1340	402630.00 01/05/66 1420	^^2630.00 ^2708766 1230	1330 1330 1330	0,05670,00 04/04/66 0131	402630.00 05/04/66 1120	A02630+00 06/09/66 1020	00.00000 07/11/60 0900	402630.00 08/10/46 1110	00.00000000000000000000000000000000000

MINERAL ANALYSIS OF SURFACE WATER

ī		6.5	4 °	<b>7.4</b> 0	0 0	4 -	3.3	c o	at o	4 a o	α c	* 0	4 °
LITER TDS SUM		:	:	:	:	:	;	:	7 t 8 3	:	:	;	57
MS PER S102		:	;	:	;	:	:	;	19	:	:	;	61
MILLIGHAMS PER H S102		0 • 0	0.0	0 • 0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0 • 0
1 1		:	;	;	;	;	:	:	;	:	:	;	:
ar GS W		:	2.0	:	0.7	0.9	9.6	10.	0.5 .01	:	0.9	;	0.6
TFR EM LIT VALUE CL		- • • 0 • 4	0.0	4.0.	5.0.	.06	0.00	3.0 .08	7 . 0 . 05	2.3	3.0	1.7	0.0° 0.0° 2.0°
PER LI LENT P CTANCE SO4		:	;	5.0	:	;	;	;	6.0 12	:	:	;	5.0 .10 8
MILLIGRAMS PER LITER MILLIEUUIVALUI PER LITER PERCENT REACTANCE VALUF 03 HCO3 SO4 CL Nº		1,00	1,08	1.00	67	53	1.05	1.10	65 1.07 86	64 1,05	1.02	1.00	62 1.02 86
MILLI PFRCE CO3	(12c)	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0	0 0	0.0	0 • 0	0.0	0.0
Z X	AT BEND	1	:	:	:	;	:	:	1.0	;	:	:	1.0
MINFRAL CONSTITUENTS CA MG NA K	RIVER AT	5.7	6.1	5.4	.32	5.4	7 • 3 • 3 >	6. 4.5		5.5	5.5	5. 2.	8.5° 8.5° 1.0°
L CONS	SACRAMENTO	:	:	:	:	;	:	:	5.0 .41 32	:	;	:	п. • 4 ы 4 ф
4 INFRA	SAC	;	;	;	:	;	;	;	11.	:	:	;	0.4 4.4 4.4c
EC LAB FLD		114	118	117	133	113	141	130	121	123	111	115	11,
P. F.C.		7.3	7.3	7.9	8.1	7.9	7.7 5.7	7.3	7.7	7.9	7.3	7.4	7.7
ار د د		ج 1	5,2 F	R F	1 4	2. PT	r 2	بر م	ř. F	<u>r</u>	5,2 F	F. F.	F.
no SAT		10,3	10.3 94	10. a	11.9	11.7 98	11.6	10.8 101	11.5	11.1	1.1	10.7	10.4
		2.43 4320	2.93 8730	3.96	3700	2900		1970	9720	0700	13200	3000	8000
NUMBER LAG SAMPLER		5000 5050	5000 5050	3.9 5000 12000 5050	5000 13700 5050	50n0 159n0 50s0	5000 5040	5000 5050	5000 5040	5000 10700 5050	5000	5050 5050	5000 5050
STATION NU DATE TIME SA		402785.00 10/04/65 0900	A02785.00 11/01/65 1930	A02785.00 11/29/65 0920	01/03/66 01/03/66 0920	AN2785.00 N2/07/66 0910	A02785.00 A3/08/66 1030	402785.00 04/05/65 1210	A02785.00 05/03/66 1410	A02785.00 n6/07/66 0800	A02785.00 07/11/66 0910	A027P5.00 08/09/66 0800	A02745.00 09/13/66 1125

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

I U		182	128 0	060	154	172	210	196	286
LITER TOS Sum		;	:	:	264	:	:	;	528 531
MILLIGRAMS PER R S102		:	:	:	23	:	:	:	31
LIGRAN		0.0	0.1	0.0	0.1	0.1	0 • 0	0.0	0.1
11 M		:	;	;	:	:	:	:	:
80 <b>2</b> 0 <b>2</b> 0		:	:	:	0.6	:	:	:	3.2 •05 1
ER PLITE VALUE CL		4.8	39	.20	36 1.02 23	1.18	63	1.35	131 3.69 38
PER LIT LENT PE CTANCE 504		;	:	;	24.2	:	;	!	660 8
MILLIGAMS PER LITER MILLIGULVALENT PER LITER PENCENT REACTANCE VALUE  103 HCO3 SO4 CL N	. (14a)	216 3•54	170	106	182 2.98 67	3.35	246	4.20	320 5.25 55
MILLI MILLI PERCE CO3	LANDING	.20	3.0	0 • 0	0.0	.13	.50	0 • 0	0.0
Z I Y	NICHUS	:	:	1	1.6 .04 1	:	:	;	1.3
TITUEN	NEAR K	38 1•65	7.4	10	34 1•48 32	38	50 2•14	1.96	3.92
L CONS	SLOUGH	1	1	1	20 1.64 36	:	:	:	3.21 3.33
MINERAL CONSTITUENTS IN	SACRAMENTO SLOUGH NEAR KNIGHTS LANDING (14a)	ŀ	:	1	311	:	!	:	2.50 2.50
FC LAB FLD	SAC	e c	328	197	6 3 9	4 4	60.9	557	51.6
7 T T A A C I		4 4	7.6	7.5	7.7	4 6	 	2 ct	e. 5.
T Z G		ئ 1	ر 10 د	7 7	70 F	72 F	74 F	r 1	75 14
nn Sat		7. F.	7.4	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	4.0	α. <del>,</del> ,	7. A. A. A.	*	τ •α ¤ c
I									
NUMBER LA3 SAMPLEB		5000	5000	5000 5050	5000 5040	5000 5040	5000 5050	5000 <b>50</b> 40	5000 5050
STATION N DATE TIME S		402925.00 10/06/65 0745	00.3925.00 11/03/65	402925.00 04/07/66 1115	402925.00 05/05/66 1110	A02925.00 06/08/66 0600	402925.00 07/13/66 1435	A02925.00 08/11/66 1050	402925.00 09/14/65 1410

MINERAL ANALYSIS OF SURFACE WATER

TABLE D 2

MINFRAL ANALYSIS OF SURFACE WATER

ı ı		170	114	148	14.2 28	ð čæ	95	138	3.8
LITER TOS SUM		;	1	;	1	;	116	;	+
MILLIGRAMS PER LITER TOS 8 SIO2 SUM		;	:	1	;	:	æ	;	:
LL 16RA B		0 • 0	0 • 0	0.1	0.0	0.0	0.0	0 • 0	0.0
¥ L		;	;	:	:	:	:	;	;
N03		;	;	;	:	;	0.8 .01	;	!
FER LITE VALUE CL		5.0	.06	3.5 •10	3.5	0.5	2.0.	.08	.14
PER LIT		;	;	;	:	;	16 13 18	;	;
MILLIGRAMS PER LITER MILLIEUDIVALENT PEH LITER PERCENT REACTANCE VALUE 03 HC03 SO4 CL NI		144 2,36	113	158 2•59	133 2•18	71	90 1.48 80	139	197
MILLI MILLI PERCE CO3	(95e)	.13	0.0	0.0	3.0	c 0	0.0	3.0	.13
	) ндоом	1	;	;	:	:	o .c.	:	;
TITUEN NA	THOMES CREEK NEAR MOUTH	8.1 .35	2.5	7.2	31	3.1	2.5 2.8 2.8	5. 5. 5. 5.	7.7
L CONS	MES CREE	:	:	ì	;	1	2.4.0	1	!
MINERAL CONSTITUENTS IN CA MG NA K	THO	;	:	;	;	;	26.1 05.1	1	;
۴. ۱۱۵۹ ۱۳۱۵		353	216	331	300	144	182	241	4 G
4		w r	×. × × × × × × × × × × × × × × × × × ×	7 - 7 0 - 0	#. 4 9.5	7.7	 	m o	4.6 4.0
G. 3		ь 7	4 F P	ئ ب	ц. У	it v	74 FF	7 * F	7 1 1
0.0 S.A.T		101	12.6	102	11.4	11.2	α γ ζ	α - • c	100
r e		÷		6.4	0.4	150	C	Ş	^
n		5000	5000 0000	5000 5050	5000 5050	5000 0000	5000 5050	5050 5050	5000 5050
STATJON NUMMER DATE LAR TIME SAMPLE		403200.00 12/13/65 1345	403200.00 01/17/66 1145	A03200.00 02/11/66 1135	03.005.00 03.027.66 03.13.0	003200.00 04/12/66 1220	1200 1200 1200 1200	003200.00 06/02/66 1115	07.06.766 07.06.766

MINFHAL ANALYSIS OF SURFACE WATER

		1 U		20	153	173	176	L 4	133	182
	R LIT	SUR		1	+	1	:	1	161	;
	AMS PE	2015		ŀ	;	:	!	;	<b>*</b>	;
	MILLIGRAMS PER LITER	ac		0.0	0.0	0.1	0.0	0.0	0.0	0.0
	ξ	u		;	;	;	1	1	;	:
	α w	€ 0 <b>N</b>		;	;	:	;	;	.01	:
	MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER	PERCENT REACTANCE VALUE		26 . 73	.21	9.5	.31	ه. 15 ع	39 12 12	89.
	PER LI	S04 S04		;	;	:	;	:	.21	ŀ
<u>د</u>	MILLIGRAMS PER LITER MILLIEGUIVALENT PER I	HCO3		3.28	171	181	3.12	110	2.41	182
CE WA		C03	95a)	02.	3.0	9.0	6.0	2.0	4.0 1.3	.37
SURF	ITS IN	¥	ERBER (	:	;	1	1	;	.03	:
SISOF	MINFRAL CONSTITUENTS IN	<b>∢</b> Z	elder creek at gerber (95ª)	140.	8.6	6. 4. 5. 4.	-4	6.6	0.4. 0.4.	4.6
DNAL	1 C0N9	9	LDER CR	;	1	ŀ	1	;	16	ŀ
MINEHAL ANALYSIS OF SURFACE WATER	MINFRA	CA	国	:	:	;	:	:	1.35	1
2	ن سا	F LO		664	ς 4	358	349	211	7 8 5	390
	å.	F A 14		α α 	α x	x x	α x	т т • с	x.	r a
	,	7 2		5.2 F	14 3	7 7	Č.	ر ر	74 F	74 F
	9	∩∩ S.A.T		12.5	12.4	12.1	12.9	11.0	101	11.0
		I		4. 4. 4.	5.02 122	5.04	106	5.05	4.57	7-
		LAR SAMPLER		5000 5050	5010 5040	5000	5000 5050	5000	5000	5000 5050
	ž	DATE L		003320.00 12/13/65	403320.00 01/17/66	003320.00 02/10/66 1155	403320.00 03/02/66 1145	003320.00 04/12/66 1240	00.00000000000000000000000000000000000	A63320.00 06/02/66 1130

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

1 1 U F Z	270	134	236	36	37	30
	:	;	:	:	:	312
MS PER 5102	;	:	:	:	;	15
MILLIGRAMS PER LITER 105 A 5102 SUM	0.0	0.0	0.0	0.0	0.0	0.0
۳ ا	;	;	:	:	;	:
ω C C	:	;	:	;	;	0.4
E R LITER VALUE CL N	39	1.9	3.1 .09	5.0 .14	.17	2.6
ENT PEH		:	:	:		1.05 1.05
MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE 103 HC03 S04 CL N (884)	240 3.94	148	243	236	260	274 4.49 1.
MILLIE PERCEN CO3 H	16 •53 3	0.0	5.0	10	4.0	0.0
<u> </u>	1	1	;	:	:	1.2 .03
ITUENT NA NEAR RE	17	8.4	13	16.	17	17 17 13
CONST MG	;	;	:	:	;	2.30 3.39
MINERAL CONSTITUENTS IN CA MG NA K HED BAUK CREEK HEAR HED BLAF	;	;	:	;	;	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
EC	545	241	4 8	064	513	520
T L D L	8.6 8.1	× × × × × × × × × × × × × × × × × × ×	4 ° °	φ. γ. γ.	8.3	8.0
TE MP	51 F	53 F	42 F	R. P	r r	55 m
δΛ SAT	11.3	11.1	12.5	11.5	10.0 10A	a. 4 C
i e	4.56	5.52 454	4.40	4.12	3.90	3.72
NUMHER LAN SAMPLER	5000 5050	5000 5080	5000 5050	5000 5050	5000 5040	5000
STATION NUN DATE L TIME SAN	A03460.00 12/02/65 1330	403460.00 01/06/66 1500	A03460.00 A2709766 0830	A03460.00 03/08/66	003460.00 04/06/66	05/04/66

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	SCR		;	:	:	:	;	:	:	133	1	:	;	125
45 PER	2018		;	:	:	;	:	:	:	16	:	:	:	22
MILLIGRAMS PER	π		0.0	0.0	0.0	0.0	0 • 0	0 • 0	0.0	0.0	0.0	0	0.1	0.0
IΙ	u.		1	;	;	1	:	:	:	;	:	;	:	:
œ.	E ON		:	;	:	1	ł	:	:	0.7	:	;	0.9	0.7
7F.9 58 L.116	√∆∟∪F (∟		.12	.20	34	.16	5.9	. 1 . 8	, 06 . 06	5.1. 6	.15		3.2	5.0°
PEN LI	504 504		:	:	:	:	ŀ	;	:	15.01	;	:	:	c
MILLIGRAMS PEH LITER MILLIGOUIVALENI PEH LITER	PERCENT REACTANCE VALUE 03 HC03 504 CL	( o	103	118	117	124	125	126	1.59	122 2.00 84	110	128	111	110 1.80 88
#11-L1 #11-L1	.03	100D (12	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.07	0.0	0.0	0.0
15 IN	×	COTTON	:	;	;	:	;	:	:	0.0 0.02	;	;	:	1. 4.0. 4.0.
TITUEN	۵ ع	EK NEAR	7.3	. d.	10	7.7		3 · 4		.31	7.4	œ	7	7. 2. 5
CONS	Σ S	OOD CREE	;	:	:	:	;	:	:	9.4	:	;	;	39.3
MINERAL CONSTITUENTS	CA	COLTONWOOD CREEK NEAR COTTONWOOD (12b)	;	:	:	:	:	;	:	25.1	:	:	;	- 0 4 T C L
	r L A H		197	155	258	717	456	426	a A	0 2 2	702	515	000	134
a i	FLAB		9.¢	T. 7.	7.4	8.0	7.5	7.7 4.4	٧٠.	A. 7	, , , , , , , , , , , , , , , , , , ,	H. 7	7 F	H.1
c.	1 F		ι. «	ر د به	4 7 4	اند ج ع	lu. 5	L 4	7 7	L 22	ر. در	ј. З	ر ب	7 6
•	∩0 5≜T		6 64 75	10.5	12.2	12.3	100	10.51	10.5	0.0	11.0	10.4	10.3	10.2
	i i		6.26 89	4.25	6.92 294	1040	1040.	870	C76	619	25.0	100	~ v	٦.
~	LAA SAMPLER		5000 5050	5050 5050	5000 5050	5000	5000 1 5050	5000 5050	5000 5050	5000	5000 5050	ろろろう	5050	2020
ž	DATF L TIME SAN		10707765 10707765 10840	11/04/65 0	403520.00 12/11/65	403520.00 71/17/65 9	00.00000000000000000000000000000000000	403520.00 03/02/66 1250	043520.00 04/13/66 1135	A13520.00 05/02/66 1335	A03520.00 06/02/66 1230	403520.00 07/04/46 1200	A03520.00 CR/12/66 1500	09/01/66 09/01/66 0940

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

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LITER	TOS TH SUM NCH
LLIGRAMS PER LITE	S102
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Σ	L
E R	E ON
ITER PER LI	E VALU
PER L	SO4
ILLIGRAMS PER LITER ILLIEGUIVALENI PER L	PERCENT REACTANCE VALUE CO3 HCO3 504 CL NO3
#1°L	PERC CO3
175 I∧	¥
STITUEN	٩ 2
500S	. ž
MINERAL CONSTITUENTS IN	MP LAN LAN LAN CA MG NA K CO
ů.	1.0 1.0
ž	F. D.
	La.
	H. DO T
	G.H. DO
3 L T W D N	Or in:
MANUAL MOTTATA	DATE TIME

Ę	148	133	9 9	99	64	105	79 B	100	97	132	145
5	1	;	;	;	;	:	ŀ	12A 127	;	1	189
u 2	i	;	1	1	;	:	;	18	:	ŀ	50
c	0 • 0	0 • 0	0.0	0.0	0.0	0.0	0 • 0	0.0	0 • 0	0.0	0.0
_	1	1	;	:	;	;	ŀ	:	:	;	:
5	;	:	:	;	1	;	:	.01	;	;	.01
<b>.</b>	16.	16	6.5 .18	5.5	.06	5.5 .06	1.2	3.6 110 5	.12	π. .25.	15 4.2 12
(113)	ţ	i	:	:	:	:	:	221 10	;	:	0.5.0
COLTOWNOOD CREEK BELOW NORTH FORK COLTONWOOD CREEK (112)	160	147	107	1.18	75	116	1.46	112 1.84 85	116	146	168 2.76 82
TOWNOOD	7.0	4.0 •13	1.0	0.0	0 • 0	2.0	2.0	0.0	0.0	7.0	0.0
FORK COT	;	:	;	;	;	;	;	0.8 0.02 1	!	:	1.3
NORTH I	11	= 4	7.6	5.6	6.9	7.5	4.7	5.6 .24 11	15.	o 7 • m a •	1.4. 1.4.
K BELOW	1	1	1	1	:	1	1	900	1	1	1.40
OD CREE	;	;	;	;	:	1	1	50.0	;	;	
OTTOW	322	666	216	5. 8.	141	227	149	508	223	a7c	312
-	4.6	H.5	a. 7.	1 L	7.5	R.3	41	4.0	α.	4.5	4 .
	7	č.	r.	4 E	τ. π	4 7 4	? ?	4 1	بر بر	7 × F	71 F
4	° 0	1 ° 0	12.1	12.1	11.7	12.5 104	5.11	• • •	o +	9.6	α α α
2		٠,	7.5	1000	0.07	35.0	350	ď	r C	c	10
A M J L M M J L M M M J L M M M M M M M M	5000 5050	5000 5750	5000 5050	5000 5050	5000 5050	5000	5040 5040	5000 5050	5000 0202	5000 <b>5</b> 040	5000
1 JME 54	A03540.00 10/07/65 0915	AA3540.00 11/04/65 1935	A03540.00 12/13/65 1600	017540.00 01705766 1510	403540.00 02/04/66 1415	403540.00 03/02/66 1320	AN3540.00 04/13/66 1210	403540.00 05/03/66 1050	06/03/66 06/03/66 1015	403540.00 07/07/65 1100	403540.00 09702766 0810

		ı Ç		157	154	160 35	136	171	168	9 9	<b>o</b> o	ac re	120
	LITER	SUM		;	i	:	;	:	:		138	:	;
	MILLIGRAMS PER	2018		;	;	ŀ	;	:	;	;	12	:	:
	LLIGRA	αc		0.1	0.1	0 • 0	0 • 0	0.1	0.0	0.0	0 • 0	0 • 0	0.0
	Σ	u.		;	;	:	:	;	;	;	;	1	;
	αx	E 0 N		:	:	:	:	:	;	;	0.5	;	;
	MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER	VALUE CL		25.	35	28	.34	39	12		8.3 0 .23	A	
	MILLIGRAMS PER LITER MILLIEQUIVALENT PER L	PFHCENT MEACTANCE VALUE 03 HC03 S04 CL	(0		;					· ·	14 299 12	a •	1
	MS PE IVALE	3 S	EK (11)										
,	LIGRA	103 103	OD CRE	162	140	2.44	146	174	166	1.62	110	114	130
•		. 60 . 60	TTOMO	4.0	.13	2.0	0	5.0	5.0	2.0	0 • 0	0.0	3.0
	NTS IN	¥	BOVE CC	1	;	!	1	1	;	1	0.8	1	ï
	MINERAL CONSTITUENTS IN	Δ	CREEK AI	36.	15.	5.8	55.	47.	19	8.1 •35		4 • 5 · 5	13
	L CON	D D	MW00D	;	;	:	1	;	i	;	7.1 .58 24	;	:
	MINER	CA	W COTT	;	:	i	:	:	;	:	1.40 0.40	;	;
	ر م 9	F (1)	SOUTH FORK COTTOINGOD CREEK ABOVE COTTOINGOD CREEK (11b)	366	846	301	579	0 0 7	300	205	526	ادر	SAS
	r 2 - 2	F. D	ω	7.5	7.3	a a 4 c	α τ	1 1 1 C	α r 	4°, t	~ ·	a a.	7.6
	F S G			A 5. F	5.7 F	4 1 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ls.	4 % 6	7. S. P.	7. 7.	رج 1	7 r F
	C	SAT		7 c 4	7.7	10.5	19.0	101	12.0	11.3	9.4	101	e 0.
	τ.	c		7	1.0	O.F.	ă,	7.0	ć.	٥٠١	ć.	ç	i.
	G J R M J	SAMPLER		5000 5050	5000 5040	5000 5050	5000 5050	5000 50¢0	5000	5000 5050	5000 5050	5090 5040	, r. c n
	20			A03595.00 10/07/65 0815	403595.00 11/04/65	403595.00 12/17/51 1245	403595.00 01/17/66 1045	003595.00 02/10/66 0935	403594.00 44/50767	64713756 6	403595.00 65/03766 1125	06702745 06702745 1210	A03595.00 07/04/66 0830

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

i o		94	87 0	٠, 10	w c	36	9 0	œ o	£ 0	0 0
MILLIGRAMS PER LITER TDS 8 SIO2 SUM		;	1	:	:	;	:	:	111	:
MS PER S102		;	:	;	:	:	:	:	32	:
LLIGRA R		0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.5	0.1
¥ ¥		:	:	:	:	:	:	:	:	;
E 20 3		:	:	:	:	:	:	:	.0.	:
TER LITI VALUE CL		.28	.27	5.6	1.1	1.6	90.	3.6	5.4 118	9.0
PER LI LENT P CTANCE SO4		:	;	:	:	:	:	:	5.0 .10	;
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REAGTANCE VALUE :03 HC03 504 CL N		106	108	1.21	32	74.	1.02	1.07	8. 1.38 83	99
MILLI MILLI PERCE CO3	(85a)	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BIG CHICO CREEK AT CHICO (85a)	;	:	:	:	:	:	:	.02	:
MINERAL CONSTITUENTS IN CA MG NA K	скетек А	13	14.	8 · 3	2.7	4.9 .21		6.8 •30	9.4. 24.	13
L CONS	CHICO	1	:	1	1	:	;	:	. 5. 3.2 3.2	:
MINERA CA	BIC	:	:	:	:	:	;	:	41.	:
EC LAB FLD		212	212	143	e.	92	118	122	162	192
F P F P F P P P P P P P P P P P P P P P		7.8	7.9	7.5	7.7	7.5	8.1 7.A	8.1	8.0	8.8
7. G		4 4	57 F	4 7 4	4 E	4.5 F	53 F	5 5	53 F	7.1 F
00 SAT		10.0	10.6	12,3	12.0	12.2	11.9	10.H	9.5	9.1
6. I		3.72	3.42	4.11	5.57 298	129	4.32	4.0 8.0 8.0	4.03	3.83
NUMBER LAR SAMPLER		5000 5040	5000 5050	5050	5000 5050	5000 5050	5000 5050	5000 5050	5000 5050	5000 5050
STATION NU DATE TIME SA		10/06/65 1350	A04250.00 11/03/65 1500	404250.00 12/01/65 1420	404250.00 01/05/66 1500	004250.00 02/08/66 1300	404250.00 03709766 1400	404250.00 04/06/66 1340	A04250.00 05/04/66 1140	A04250.00 06/09/66 0950

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STATION NU DATE TIME SA	NUMBER LAR SAMPLER	i c	00 SAT	d to the b	FLAH	EC ' LAB FLD	MINFRAL CONSTITUENTS IN CA MG NA K	. CONS.	TITUENI		MILLIG MILLIE PERCEN CO3 H	MILLIGRAMS PEW LITER MILLIGOUIVALENT PER LITER PERCENT REACTANCE VALUE 03 HC03 SO4 CL N	ENT PE	ER R LITE VALUE CL '	α 2 α 2	M 1.	MILLIGRAMS PER A SIO2		LITER TOS SUM	I I V
							ANTEL	OPE' CRE	antelope' cheek near mouth (880)	) HILOOW	88c)									
404520,00 10/04/65 1350	5000	10	5.66	8. F	8.1	205	;	;	.70	:	0.0	73	;	16	:	;	5.0	:	:	4 4
404520.00 11/03/65 1355	5000 5050	10	11.1	55 F	7.5	213	;	;	4. A. B.	:	0.0	1.23	;	27	:	;	9.5	:	;	• 0 0
A04520.00 12/13/65 1430	5000	5-	11.5	4 4 5	7.5	190	:	;	Q • 4	:	0.0	86 1.41	;	.21	;	;	0.1	:	:	52 8
004520.00 01/17/66 1250	5000	3.0	11.00	4 ? IT	7.9	169	;	;	7.A	:	0.0	100	1	.16	:	;	0 • 0	:	;	e c
404520.00 02/10/66 1015	5000 5050	۲.	11.7 98	д Г	7.0	ויו	:	:	7.5	:	0.0	72 1.18	:	3.0	:	:	0.1	;	:	η. C
404520.00 03/02/66 1055	5000 5050	۲۱	12.2	c. 4	۳. د .	117	1	;	5.1	:	0.0	1.09	;	1.3	:	:	0.0	:	:	30
404520.00 04/12/66 1140	5000 5050	15	10.3	5 y F	7.5	133	:	:	.35	1	0.0	. 44	1	.11	:	;	٥.٠	;	;	ج س
A04520.00 n5/02/66 1115	5000	1,1	a. a. a. a.	4 4	7.7	9.8	- 4 u	4.6 9.59	1. v	2.8	0.0	1.26	918	.21	1.6 .03 .2	:	0.3	33	159	r 2
404520.00 06/02/66 1010	5000 5050	r.	7.3	7 5	7.5	233	1	1	5.5	1	0.0	1.46	1	11 11	;	1	0.3	;	:	0 8

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

1.0		0	94	0	63	40	4 C O	99	6.0	900	0	97
LITER TOS SUM		:	:	:	:	;	;	:	148	:	:	166 172
MS PER S102		:	:	:	;	:	:	:	45	:	:	<b>4</b> 00
MILLIGRAMS PER 8 SIO2		4.	<b>*</b> • 0	0.3	0.5	0.2	0.1	0.5	<b>.</b> 0	0.3	0.3	0.5
Σ Ε		:	:	:	;	:	:	:	:	;	:	;
E N N O 3		:	:	:	:	;	:	:	1.4 .02 1	:	:	2.2 .04 2
TER FR LITI VALUE CL		15	14 • 39	14 39	1. 6.5 4	3.2	3.8	7.8	10 .28 13	14 • 39	39	18 .51 21
PER LI LENT P CTANCE SO4		;	:	:	;	;	:	:	2.0 • 04 2	:	1	1.0 .02
MILLIGRAMS PER LITER MILLIGOJIVALENT PER LITER PFRCENT REACTANCE VALUE 03 HCO3 SO4 CL N		113	115	114	94	1.12	1.16	1.59	106 1.74 84	110	107	114
MILLI MILLI PFRCE CO3	F (88g)	2.0	0.0	0.0	0 • 0	0.0	0.0	0*0	0.0	0.0	2.0	0.0
S Y	PAYNES CREEK NEAR RED BLUFF (88g)	1	:	:	:	:	1	:	1.5 40.	:	:	0. 0. 0. 0. 0.
MINERAL CONSTITUENTS IN CA MG NA K	MEAR B	12	91.	17.	13	7	. 3. 7	13	15 46. 32	•70	17.	19.
L CONS	S CREEK	:	;	:	:	;	:	:	8.0 .66 32	:	:	33
MINERA	PAYNE	:	;	;	;	:	;	;	41. 07. 44.	;	:	41.00
FC LAB FLD		928	233	558	44	128	1.61	1 49	1,5	221	503	247
4 LAB		4.4	7.5	7.5	7.3 7.3	A. n	7.4	7.5	7.3	7.9	7.1	4.7
ğ		A 7 F	6.1 F	ر د م	F 0.2	JE	4 Y	ر ب	5 F	ir Tr	4 T	ام ج ج
00 54T		e	4.0	10.7	11.7	11.7	12.0	10.1	10.4	0 4 X	3.4	7.7
r r		10	51	ç	c N	C #		ć	0 0	e.		0
NUMATE LAAT SAMPLER		0000 0000	5000 5050	5000 5040	5000	5000 5050	5000 5050	5000 5050	5000 5050	5000 0000	5000	5000 5040
STATION NU DATE TIME SA		404620.00 10/06/65 1240	404620.00 11/03/65 1245	A04620.00 12/15/65 1130	404620.00 01/17/66 1400	404620.00 02/09/66 1410	A04620.00 03/02/66 0945	004620.00 C4/12/66 1030	05/05/66 05/02/66 1005	064620.00 06/02/66 0900	A04620.00 07/06/66 0745	404620.00 09/07/66 0755

MINEHAL ANALYSIS OF SURFACE WATER

10	\$ C	S & C	<b>4</b> 0	3.4	F 0	r 0	310	60	80 →	N O	88	5
LITER TDS SUM	;	*	:	;	;	;	;	n 4 4 0	;	1	1	96
MS PER 5102	;	;	P 8	;	;	;	:	Ξ	;	;	;	;
MILLIGRAMS PER B SIO2	00.	• 10	00.	00.	00.	00.	00.	00.	000•	00.	0.0	00.
η I Ε Ι	;	1	;	1	;	;	;	;	;	1	;	;
N03	;	;	;	;	1	;	;	.01	;	:	;	ς.α .1
MILLIGRAMS PEN LITER MILLIEGOJVALENI PEN LITER PERCENT MEAGTANCE VALUE 03 MCU3 SOG CL N	1 • 1	.03	1.5	***	5.5		.03	0.0 3 3	1.2	0 0 0	π π • ο	4.5 50.
PER LI LENI P CIANCE SU4	;	;	;	;	;	;	;	 	:	:	;	4.6 0.
MILLIGRAMS PER LITER MILLIGUDIVALENI PER LITI PERCENT REACTANCE VALUE 03 HCU3 SOG CL		1.03 64 1.05	0.1	4 0 0	× 5 5 5	5.5	£ 79.	36 254 78	55.	1.12	1.28	77 1.26 83
MILLI MILLI PERCE CO3	0 • 0	0 • 0	0 • 0	0 • 0	0 • 0	0.0	0.0	0 • 0	0 • 0	0 • 0	0 * 0	1
z 1	1	1	;	;	;	}	:	0.7 .0.5	:	1	;	0.1
PH FC MINEMAL CUNSTITUENTS IN LAM LAM CA MG NA N FLO FLO CA MG NA N FEATHER RIVER AT NICOLAUS (20)	4 0 t			3.1	* . 		· ·	 	3.1.	4.1	£ .	5. 42. 1.1
CUNS MG	+	1	;	ī	;	1	;	2.6 .21 30	1	;	1	7.3 .00
MINEHAL CA ER AT	;	;	;	;	;	;	1	7.4 .37	ì	:	1	14 • 7.9 4.5
FC LAH FLO ER RIV	110	113	105	0 5	115	110	7 4	7.0	110	124	39	
Ры Lam Flo Feath	- ·	7.7	7.1	7.5	7.3	7.x 7.3	7.5	7.5	8.3	1.6	7.5 7.7	н. 8.3
TrwP 11 0 5103.00	13	60 1 09	17	17	977	75	; 65	19	18	78	- 92	77
1)0 SAI A O 51	o o o o o o o o o o o o o o o o o o o	96 10.6 106	12.2 104	11.1 94	12.2	11.6	11.0	9.8 102	9.h 120	9.2	7•¼ 88	10,1
\$ # C	22.92	23.53 3120	24.02 5740	31.83		25.24 5440	28.52 10410	25 <b>.1</b> 6 5320	20,00	19,05	18.61	
NU41FR LAM SAMPLER	, 	0005 5	9 ) 0 0	5400	5100	5000	0.000	ก รถภก	0.5.000	5:100	5.10.3	0.000
STATTON P DATE TIME	A05103.00	07.047.65 07.70 07.70 0.51.03.00 117.057.65	405103.00 12/01/65 1500	A05103.00 01/07/65 0835	405103.00 02/11/66 1545	405173.00 03/10/65 1515	A05103.00 04/07/65 1515	A05103.00 05/05/66 1315	405103.00 06/09/66 1415	405103.00 07/14/66 1430	005103.00 08/11/66 0730	405103.00 09/15/66 1500

TABLE D 2

3	I U Z		4 °	6 0	N O	34	67	0	30	30	<b>3</b> O	ι, 4 ο	80 O	62
	SUM		:	:	;	:	;	:	:	4 4 6 8	;	;	:	98
S PER	2018		:	;	;	:	:	:	:	12	:	:	:	:
MILLIGHAMS PER	r		00.	00.	000	00.	00.	• 00	•01	• 01	000	00.	00.	00.
βIΓ	íL.		:	;	;	1	:	;	:	;	:	1	:	1
x w	£ (5)		:	;	;	;	:	;	;	0.5	;	;	:	0.0
TER EM LITE	CL		1.2	.02	.05	.03	.06	1.2	1.8	. 0. 9.	1.1	5 0 e	5 .0	4.5 50.
PER LITER LENT PER L	\$0.5		:	;	:	:	;	:	;	9 . 0 9 . 0	;	;	:	1.00
MILLIGHAMS PER LITER MILLIEUUIVALENT PER LITER PERCENT BEACTANCE VALUE	HCO3		63 1.03	1.08	96.	, ¢	9.00	55.	£ 5.	36 59	22.	69	74	76 1.25 88
MILLI	£00	(20a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 IN	¥	BEND	:	:	1	;	:	:	:	0.6 .02 .3	;	;	:	1.0 .03
MINERAL CONSTITUENTS IN	<b>4</b> 2	SHANGHAI	4 2	.2.	1.1	3.7	4.6 0.5.	4.7	2.7	٠. 11. 13.	3.4	4 7	5.5	5.5 28.2 21.5
L CONS	βQ		:	:	;	:	:	;	:	7.1.	:	:	:	F 4 5 4
MINERA	CA	VER BE	:	;	;	;	1	1	;	4.5 5.3 5.3 5.3	1	;	1	5.004
л С 4	F.0	FEATHER RIVER BELOW	110	115	108	m T	114	11	6	69	113	123	174	136
g _	F(L)	FEAT	8.2 7.3	ж.1 7.5	8.0 7.3	7.5	8.0 7.3	8.1 7.3	7.3	7.7	8.1	7.7	7.7	8.0 7.9
2 1	:	5120.00	: 65	; %	<b>;</b> <sup>94</sup>	<b>:</b> 91	<del>1</del> 24	; £2	57	; 89 ;	73	72	+ 12	73
C	SAT	A 0 5	9.2 93	10.6	12.2	12.3	12.6 104	11.7	11.2	10.2 104	10.0 11.5	9.4	7.2 86	9.5
1	0		34.80 2320	35.28 2820	35.67 3270	41.33 12800	35.96 3610	36.65 6580	40.01 10100	36.70 4570	32.34	31.99	31.82	Annual section of
NUMHER A	SAMPLER		2000	5000	5000	2000	2000	2000	2000	5000	2000	5000	2000	5000
STATION NO	TIME SA		A05120.00 10/08/65 0815	A05120.00 11/05/65 1500	A05120.00 12/03/65 1415	A05120.00 01/07/66 0930	A05120.00 02/11/66 1500	A05120.00 03/10/66 1430	A05120.00 04/07/66 1445	A05120.00 05/05/66 1245	A05120.00 n6/09/66 1330	A05120.00 07/14/66 1345	405120.00 n8/11/66 0800	A05120.00 09/15/66 1415

MINEMAL ANALYSIS OF SURFACE WATER

	I S		5.6	<b>3</b> €	9 4	29	58	5.2
0 to 1	105 50M		;	;	;	52	;	100
0.10	S102		;	;	;	1.1	;	;
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Σ	<u>.</u>		;	;	1	;	;	;
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α	VALUF CL		1.2	.03	.03	.0. .03	0.00	1.2 .03
PEN LI	SO4		;	;	;	3.0 0.0 2.0	;	4.4. 1.2. 1.
MILLIGRAMS PEN LITER MILLIFOLIVALENI PER LITER	MILLIEWOIVALEM TER LI PFRCENT REACTAINCE VALUE 03 HC03 S04 CL		50.I	50 .82	14	4 v r r	52 1.02	21.1
MILLI	PFRCE CO 3		0.0	0.0	0.0	0 • 0	0 • 0	0.0
2			;	;	;	0.6 .02	1	.02
- Z	4 V	E (21)	3.3	3.3	3.1	7 7 7	3.0	3.6
, NO	§ 50 9 N	KSVILLI	;	;	}	2.5 .21 31	1	1 1 7
M STMHUTTINGO BOOMBIN	CA	AT MARYSVILLE (21)	;	1	;	****	1	- T 3
<u>د</u> ن		RIVER /	119	100	æ F	t ¢	3	<u>r</u>
ב	1 L L L L L L L L L L L L L L L L L L L	YUBA 1	8.0 7.5	7.1	7.3	7.5	7.7	7.9
	ž	20.00	59	54	1 00		77	
	541	A 0 6120.00	10.6	12.7	11.9	10.6	9.5	9.5
	r c		60.14 14	62.87 1670	61.92 688	62.10 850	59.57	
NO PER SE	SIAILON NOMAFR DATE LAH TIME SAMPLEM		A06120.00 11/05/65 5000 1400	406120.00 01/07/66 5000 1015	406120.00 03/10/66 5000 0945	406120.00 05/05/66 5000 1130	A06120.00 p7/14/66 5000 1230	A06120.00 09/15/66 5000 1300

TABLE D 2

1	Į.		98	108	98	90	4 0	43	8	04	13	18	84 10	91	26
	S C X		:	:	:	;	;	;	;	:	92	:	:	:	140
S PER	2018		:	;	:	;	;	;	:	;	::	:	:	;	;
MILLIGHAMS PER	ı		00.	00.	00.	00.	00.	.01	00.	.01	00.	00.	00.	000	00.
MIL	tı.		:	1	1	;	;	;	;	;	:	;	;	;	:
<b>x</b>	E 0N		1	:	:	:	;	:	;	;	0.4 .01	1	;	;	3.4
MILLIGHAMS PEH LITER MILLIGUUIVALENI PEH LITER PERCENI PENCTANCE VALUE	CL		3.8	. 1 t	3.8	5.2	2.7 .08	3.0	60°	80.	3.5 .10 6	3.7	6.1	22.	x 6 5
PER LI	504		1	;	;	1	ŀ	;	;	;	15 31 20	;	;	;	21 £ -
MILLIGHAMS PER LITER MILLIGUOIVALENT PER LITE PERCENT PERCEANCE VALUE	HCO3		100	104	100	1.4.1	44	44	54 69.	41.67	70 1.15 73	5.2 £9.3	9.0	92 14,1	101
MILLI	CO3		1.0	2.0	1.0	0 • 0	2.0	0 • 0	0.0	0 • 0	0.0	0 • 0	0 • 0	0 • 0	0.0
NI 51	ĸ	<u> </u>	1	;	:	:	ł	;	:	:	0.7 .02	;	1	;	200
MINEMAL CONSTITUENTS IN	۲ ع	NEAR WHEATLAND (78)	5.4 .26	5.9	5. t	. S. 6	3.7	3.4	3.7	3.4	.20 12	1	1 2	~~~	5.4
L CONS	W(5	HEATLA	;	1	ļ	ï	1	;	;	1	. t. 4 U. U. 0	}	;	:	111
MINEHA	CA	NEAR W	1	1	1	1	;	;	;	;	- : t	;	;	;	4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
ر با م	FLD	RIVER	<b>212</b>	ž.	212	201	109	103	101	66	157	145	241	202	224
7 - 1 <	1	BEAR	H.3	χ. •	¥. ₹	н. о 7.3	7.5	7.5	7.2	7.5	7.4	7.0	7.9	7.3 8.1	7.5
Σ Σ	:	A 0 6550.00	17.	1	57	1,8	1 87	- ∄	50	1 55		1 59	- 69	- 62	199
3	SAT	A 0 65	9.2 107		9.5	10.6 91	12.2 105	12.5 102	102	10.8	90	8.6 91	7.8	9.2	8,0
Ť	2		1.89		1.74	1.82	2.76 208	3.04	3.41	2.96 284	1.19	1.20	1,00	1.01	
MUMARIA A TANDA	2		5100	5000	5000	ر. د.	5.190	5490	0000	5 00.2	5-100	5,000	5000	5 100	5000
STATION NUM			A06550.00 10/05/65 5 0915	A06550.00 10/08/65 5	A06550.00 11/05/65 50	A06550.00 12/03/05 1845	406550.00 01/07/66 5: 1440	406550.00 C2/11/66 5	A06550.00 03/10/66 5: 0845	406550.00 04/07/56 5' 0845	A06550.00 N5/05/66 5	406550.00 06/09/66 5	07714755 50 07714755 50	A06550.00 08/11/66 5 1330	A06550.00

	T O		2 0	20	25	24	98	30	<b>™</b>	20 T	9 0	9 7	, °	0 0
	SUM		:	;	:	;	:	;	:	4 4 0 00	;	:	;	35
MS PER	2018		:	;	:	;	;	;	;	ю. Э	;	;	:	;
MILLIGRAMS PER	r		00.	00.	• 00	• 00	• 0 0	00.	.01	00.	• 00	00.	00.	00.
Σ	u.		;	:	:	:	1	:	1	;	;	:	;	;
α	80N		;	;	;	:	;	:	:	1.8	:	:	:	3.0 .05
TER ER LIT	v#L CL		1.3	1.4	1.8	.05	2.3	7.5	4.5 .07	2.1 .06 9	.05	2.0 80.0	90.	2.6
PEH LI	S04		:	1	;	:	;	:	;	5.0 .10 14	;	;	;	د.ع د٥٠
MILLIGHAMS PEH LITER MILLIEGUIVALENT PEH LITER	HC03		26	24 • 39	° 5 €	288	32.	34.	32.	31 .51 73	30	9.3	31	31 .51
MILLI	75.4C		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TS IN	£	(55)	:	1	:	:	1	;	:	0.8 .02 3	1	i	:	0.7 .02 .3
MINERAL CONSTITUENTS IN	<b>a</b> 2	SACRAMENTO	. 0 . 1	2.6 .11	2.4	2.7	3.4	3.3	.12	3.4	3.2	.12	2.4	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
L C0N3	M.G	SACR	;	1	;	1	1	;	1	2.1 2.1.7 2.3	1	1	;	1.8
MINERA	CA	VER AT	:	;	;	1	:	:	1	7.8 .34 .53	;	;	1	7.1
<u>ن</u> ا	F L D	AMERICAN RIVER AT	\$	51	62	ţ	75	ů 0	75	15	7.1	5.5	ç	7.1
ī.	FLD	AMERI	7.4 7.1	7.1	7.7	7.7	7.8 7.1	7.1	7.1	7.3	1.A 7.1	7.1	7.3	7.7
9	L E L'	A 0 7140.00	19	; 9	295	<b>1</b> 83	1 83	20 1	1 3	63	65	63	18	1 69
S	SAT	A 0 7.	9.5	10.2	98	11.9	11.9	11.3	98	8.5	9.1	9.2	9.3	9.5
1			18.35	119°08	19.09	1B.06	18.08	18.05	18.22	17.43	17.51	16.33	18.35	
ž	SAMPLEG		5 5000	0005 6	ეი ა 5იმმ	00 5 5000	00 5 5100	00 5 5000	00 5 5000	00 6 5000	00 6 5000	00 9000	00 5000	00 6 5000
STATION	TIME		A07140.00 10/08/65 1300	407140.00 11/02/65 1545	A07140.00 11/30/55 1430	407140.00 01/05/66 1345	A07140.00 02/07/65 1415	A07140.00 n3/08/65 0800	407140.00 04/04/65 0800	A07140.00 05/03/66 0730	A07140.00 06/10/66 0800	007140.00 07/15/66 0700	A07140.00 08/08/65 1145	A07140.00 09/14/66 1400

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

I O		56	56	5. 0	50	<b>5</b> 0	40	5 0	0 0	a. 0	<b>6</b> 0	æ 0
LITER TDS SUM		1	:	:	:	;	:	99 60 33	:	1	:	102
MILLIGRAMS PER 9 SIO2		:	:	i	:	;	:	52	:	;	:	31
LIGRAN		0.0	0.1	0.0	0.0	0.0	0.1	o • 0	0.0	0.0	0.0	0.1
A IL		:	;	:	:	:	;	:	;	:	;	:
a. EON		i	:	:	:	:	:	.01	:	:	:	10.4
ER VALUE CL		3.0	3.2	3.1	900	2.6	.02	1.2 03 3	4.0.	.06	4.5	4.0°
EN LIT		;	:	1	:	;	:	0.0.0.2	;	;	;	1.0 .02 1
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALUE  03 HC03 S04 CL NO	_	98	91	1.49	76 1.25 1	1,25	1.08	66 1,08 95	1,13	78	1.26	1.30
MILLIG MILLIG PERCER	RIVER NEAR MONTCOMERY CREEK (17)	1.0	0	6.0	0.0	0	0.0	0	0.0	0.0	0.0	0.0
	OMERY CF	:	:	:	:	:	:	1.4.4.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.	;	:	;	2.1 •05 •
TITUEN	R MONTIGG	1. 4.	44	_ 4 _ 1	8.1 .35	8.4 •37	 		7.4 .32	4.4.	6.4. 0.4.	9 • 4 V
SNOO -	VER NEA	:	;	;	:	;	;	4,3 30	:	:	;	5.7 7.4. 33
MINERAL CONSTITUENTS IN CA MG NA K	PIT RI	:	:	:	1	;	:	2 · 4 4 a 6 v	:	:	;	35.
£ς 1.Δ8 Γιη		159	160	161	121	136	114	113	119	134	135	139
7 L D		κ. κ.	4.5	A. 7.	4.7	7.4	7.7	B. 0. 1. 4. 0	x	````	α. α. α	8.1
Α Σ		ب آ	17 4	4 4	r F	1 1	7	la. gr Ur	P P	7 64	LL T	и. Э
οο <b>S</b> ΔΤ		100	a a	12.9	12.1	12.6	10.5	10.	10.4	11.0	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	
a i		2740	0160	ب 4	4 6 4	720	743	ر ب	5.7.3	31.0	374	31
NUMMER LAA SAMPLER		5000 0202	5010 5010	5000 5050	5,000	05000 0500	5000 5050	7 P O C C C C C C C C C C C C C C C C C C	5000 5020	5000 5050	5000	5000
STATJON NI DATE TIME S.		411020.00 10/07/45 1230	411020.00 11/04/65 1240	411020.00 12/14/65 0945	411020.00 01/18/56 0945	411020.00 02/04/45 1020	411020.00 04/19/56 0920	411020.00 05/04/66 1015	411020.00 06/09/66 1350	411020.00 07/05/65 0815	411020.00 CB/04/65 1430	411020.00 09/08/66 1020

	I C C		7 60	98.0	a c	£ 6	5 C	0	7 c	ν c	00	0	¢ c	50
							•				100	101		-
	SUM		1	;	1	1	1	1	1	142	ł	1	1	231
MS PE	5102		;	;	1	1	1	!	;	19	1	:	;	30
MILLIGRAMS PER	æ		0.1	0.5	0 • 1	0.1	0.1	0.2	0.0	0.0	0.1	0.1	0 • 2	0.1
Σ	L.		;	;	:	1	;	;	;	;	;	;	;	;
TE PS	N03		;	;	1	;	;	;	1	1.0	1	1	5 · 5 • 0 •	1.8 .03
TER ER LI VALU	2		5.5	5.2	9.0	10	A . 7	4.0	3.1	.19	.13	.17	.19	8.2 7
PEH LI	504		:	:	:	:	;	;	:	4.000	:	;	;	14 433
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALLE	HC03		147	150	2.30	150	2,31	118	126	142 2.33 H2	180	3,13	172	177 2.90 83
MILL	, E03	17a)	5.0	.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11S IN	¥	CANBY (	;	;	:	:	:	:	;	.11.	:	1	;	 4.4
MINERAL CONSTITUENTS IN	۵ 2	RIVER NEAR CANBY (17a)	25	26	27	30	1.22	24.	18 83	33	31	35	1.26	37 1•31 37
CON	ā Q	PIT RIV	;	;	:	;	;	;	;	4.4 9.69 2.5	;	:	;	11. 2.9.5 5.5
MINERA	CA	£4	1	1	1	1	:	1	1	71 1•05 38	1	1	1	1.20
E C	119		279	274	270	245	279	232	227	263	312	334	309	324
ŭ _	1 C D		4.5	x x	8.07.9	7.9	4.7	A.1	7.5	7.80 C.90	7.1	7.7	α x	
Q.	<u>.</u>		4 5	r.	35 F	33 F	34 F	4.5 m	1 1 1	4. 	4 4	44 F	75 F	e. C
c	SAT		9.3	10.2	13.0 104	11.7	92	5.01 90	7.0	4.01	9. 40	4. u	9.8 133	7.5 83
ī	•		2.45	918	73	2°12	120	2.27	3,92	2.25 12	7,47	5.5 0.5 0.5	-	2.20
S T T T T T T T T T T T T T T T T T T T	α		5000 5050	5000 5050	5000 5050	5000 5000	5010 5050	5000 5050	5000	5000	5000	5050	5050 5050	500
z	TIME		A11680.00 10/05/65 1620	411680.00 11/02/65 1600	411680.00 12/14/65 1200	A11680.00 01/18/66 1350	411680.00 02/08/66 1730	411680.00 n3/23/66 1225	411680.00 04/19/66 1130	411680.00 05/04/66 1310	411680.00 06/09/66 1035	411640.00 07/05/66 1035	411580.00 08/15/66 1400	4)16A0.00 09/08/66 0740

2	I V		20	¢ 0	<b>‡</b> °	£ 0	<b>-</b> 0	<b>7</b> 0	34	4 0	50	00 °C	0	č c
LITER	SUM		:	i	;	:	:	;	:	126 95	:	:	;	138 126
S PER	5102		:	i	:	;	:	:	:	62	:	:	;	35
MILLIGRAMS PER	ec S		0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
MIL	L		:	;	:	:	;	:	:	;	;	:	:	1
œ	E 0 N		:	:	:	;	:	;	:	0.8 .01	:	:	1.5	1.4 .02
ir. 19. L.1TE 48. US			.01	.01	9.0	.01	0.6	1.2	.01	8.0.0	1.2	1.3	.13	1.5
PER LITER	504		;	:	;	;	;	:	:	9.0 9.0 8.0	:	:	:	•12
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PROCEST DESCIANCE VALLE	HC03	8a)	65 1,07	96.	68 1•12 1	62 1.02 1	62 1 • 02	73	980	72 1•18 93	86	85 1,39	110	96 1.57
MILLI	603	south fork pir kiver near likely (18a)	0	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0
TS IN	¥	NEAR LI	1	:	;	:	:	:	;	3.1 .08 6	:	:	:	112
MINERAL CONSTITUENTS IN	<b>4</b>	raver	5.4	5.0	5.6 .24	.22	5.3	8,6	.18	7.0	8.7 •38	10	16 • 70	124.
L CONS	Ð	FORK P.	1	:	1	:	:	:	:	. 34 26	:	:	;	6.0
MINERA	CA	SOUTH	:	:	:	:	:	:	:	4. 5.0 5.0 5.0	:	:	:	.70
<u>ن</u> د د	1.48 FL0		106	100	112	76	106	130	96	123	145	152	213	170
a .	F. D		8.1	8.2 7.5	8.c 7.7	7.9	8.1 7.4	ω π 	8 8 . 0. . 4.	7.9 8.1	8.8	00 00 4 N	8 30 4 4	8
3	ا ا الم		46 F	£ 3 F	33 F	3 F	33 F	£3 F	7 × 3	5.0 F	ς. Γ	72 F	64.5F	73 F
Ç	SAT		9.0	10.9	12.9	12.7	12.5	11.6	11.0	101	108	8.6 115	8.4 6 103	A. C. R. C.
:			33	2.07 32	2.18 41	2.36 2.8	32	2,63 93	2.41 63	2,84 120	2.45 144	30	92	1.76
	SAMPLER		5000	5000 5050	5000 5040	5000 5050	5000 5050	5000 5050	5000 5050	5000 5050	5000	5000 <b>5050</b>	5000 <b>5050</b>	2000
Z	TIME SAN		A14400.00 10/06/65 0810	A14400,00 11/03/65 5	A14400.00 12/14/65 1340	A14400.00 A1/19/66 5	A14400.00 02/09/66 50845	A14400.00 n3/24/66 1010	A14400.00 04/19/66 5 1355	A14400.00 05/04/66 5	A14400,00 06/09/66 F	414400.00 07/05/66 1220	A14400.00 A8/15/66 1210	A14400.00

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	I U		0 <b>4</b>	£4 0	. °	F 0	98	9 ~	<b>1</b> 0	<b>4</b> °	<b>4</b> ℃ 0	\$ 0	4 0	<b>4</b> °
LITER	SUM		:	:	;	:	;	:	:	76	:	;	;	73
MILLIGRAMS PER LITER	5015		:	:	:	:	;	:	:	18	:	:	:	18
11684	œ		0	0.0	0.0	0.0	0	0	0.1	0 • 0	0 • 0	0	0.1	0.0
Σ	L.		;	:	:	;	;	:	;	;	:	;	;	:
æ.	E 0N		:	:	:	;	:	ŧ	:	.01	:	:	.01	.01
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER	PERCENT REACIANCE VALUE 03 HC03 504 CL		1.4	1. 4.0.	1.5	.06	1.5	1.0	1.8	444	1.5	1.6	1.5	1 0 4 4 4
PER L	504		4 • 0 • 0 8 0	• 0	4 · 0 · 0	5.0	.12	8.0	7.0	6.0 .12 11	3.0	5.0	;	5.0 •10 9
MILLIGRAMS PER LITER	HCO3		8. 0.	1.00	.95	1.12	84	95.	1.00	8.0° 8.0° 8.0°	96.	96.	996.	0, 2, 8 0, 0, 4
MILL	03 203	OK (12)	0.0	0 0	0.0	0.0	0 • 0	0 • 0	0.0	0.0	0.0	0 • 0	0	0.0
N 1 S	¥	r Keswi	1	:	:	;	1	;	:	1.0	:	:	;	9.0
MINERAL CONSTITUENTS IN	۵ 2	sacramento river at keswick (12)	5.1	5.5 2.5	• • •	7.3	• 5 • 5	5.4 .25	6.0	5.7 .25	5.5	6.5	5.2	
CONS	5	AMENTO	:	;	:	1	;	:	:	7.9 339	:	:	:	5.0 .41 37
MINERA	CA	SACR	;	;	;	;	;	:	;	0 • • 4 4 ¤ 2 0	;	1	:	3.4 0.4 ()
ر ا	F C D		101	108	103	126	101	113	116	111	113	113	109	107
a i	FLU		7.2	8.1 7.1	8.0 7.0	A.2	4.0	6. ° °	7.1	7.4	7.5	7.7	2.0	71.0
3	2		r r	λ. 	F F	4 O F	ς, η	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ш. 3	G G	r.	η. C	r.	۶ ۲
•	5.0T		0 0 0 0 0	હ . લ તે. સ	9.1 88	10.0	10.7	12.4	2.51	111.9	11.3	10.5	o a	10.1
:	5 I 2		12.10 H350	11.76	3750	1600	674	4650	0.220	0006	0.020	14200	00261	7800
SI THE P	SAMPLER		5000	5000 0202	5000 5000	5000 11600 5050	5000 5050	5000	5000	5000 0000	5000 10200 5050	5050	- u	O.A.O.A.O.
Z	TIME S		A21010.00 10/04/65 1015	421010.00 11/01/45 1035	421010.00 11/29/65 1025	021010.00 01/03/66 1045	A21010.00 02/07/66 1015	421010.00 13/02/66 1145	A21010.00 04/05/66 1110	421010.00 65/03/66 1240	421010.00 04/07/65 1000	A21010.00 07/11/66 1015	A21010.00 08/11/66 0745	A21010.00 A9213766 1010

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		111	SO.		0.0	i	:	i	:	;
		MILLIGRAMS PER LITER	2015		:	:	i	:	:	:
		LLIGRA	œ		0.2	.01	0.0	0.0	0.0	0.0
		ī	L.		:	:	:	:	:	:
		α	<b>£</b> 0N		;	;	;	:	:	:
		MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PESCENT DESCIANCE VALUE	CL CL		.21	7.3 .21	1.8	2.9	1.5	.02
		PER LI	504		;	;	:	;	;	:
	æ	MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITE PERCTANCE VALUE	CO3 HCO3 SO4		1.31	82 1,34	95.	52 85 85	5 6 9	54.
	MINERAL ANALYSIS OF SURFACE WATER	MILLI	1003 1003	A (11)	0.0	0.0	0.0	0 • 0	0.0	0.0
N.	SURFA	TS IN	¥	AT DELT	;	;	1	;	:	;
TABLE D 2	S1S 0F	TITUEN	۹ 2	SACRAMENTO RIVER AT DELIA (11)	11.4	1.4	4. 7 x l	5.0	3.3	3,4
T	ANALY	L CONS	9	RAMENTIC	:	;	:	;	:	;
	INERAL	MINERAL CONSTITUENTS IN	OA	SAC	;	:	1	:	1	;
	ī		F. C.		1560	155	100	100	43	œ
		1 4 0	71.0		82.0 8.1	8.3	8.1	7.4	7.3	7.0
		2	<u>:</u>		ς. Γ	ъ. Т	4. F	٦ / ٩	4 3 F	4 C
		c	SAT		10. H	11.3	12.4	13,3	12.3	12.1
		3			101	101	5.56	5. 37	4.00 H 40	7.53 3290
		SA THE SA	SAMPLES		5000 5050	5050 5050	0005 0505	5011 5050	5000 5050	5000 0000
		N.	TIME SA		\$21300.00 10/04/65 1300	421300.00 11/01/65 1325	421300.00 11/29/65 1310	A21300.00 01/03/66 1345	421300.00 02/07/66 1250	\$21390.00 63/08/65 1430

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L11ER 105 50M		:	:	}	:	;	:	:	40	;	;	;	£ 3
		:	:	;	:	:	:	:	18	:	:	;	28
MILLIGRAMS PER R S102		2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0
£ 11		:	;	:	1	;	:	;	;	;	:	:	:
ER N03		:	:	;	;	;	:	:	0.2	;	;	0.6	.00
MILLIGHAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALUE 03 MC03 SO4 CL N		, 02 , 02	.03	.03	.02	.03	0.3	.01	, 0.1 10.1	0.6 • 0.2	.03	1.2	0.00 0.00
PER LI		;	:	;	;	;	;	:	• • • • • • • • • • • • • • • • • • •	;	;	:	3.0 .06
MILLIGRAMS PER LITER MILLIEGUIVALENT PER 1 PERCENT REACTANCE VAI 03 HC03 SO4 CL	8	98°	9.8°	51	51 .84	44	56.	528.	1.07	1.02	64 1.05	1.07	64 1.05 91
MILL MILL PERCE	LAKE (18)	0 • 0	0.0	0 * 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0
71 S T X	SHASTA	:	;	1	;	:	;	;	0.3	;	:	:	1.2
MINEPAL CONSTITUENTS IN CA MG NA K	MCCLOUD RIVER ABOVE	¥.5.	5. 5.	4.	3.4	5.6	3.4	3.0	3.5	7.7. 4.	1.4	5.5	5.0
r. con;	JD RIVE	;	:	1	;	;	:	;	.20	:	;	1	3.5
MINFR. CA	McCLO	;	:	;	:	:	:	:	- 4 4	1	:	:	- 4 c
FIC FILAR FILD		6	56	95	ş	F #	101	56	112	108	110	111	110
4 7 7 5		4.5	9.0	8 r	7.0	7.3	4.0	7.5.	7.9	7.7	D.1	x ~	7.9
g. 2		α 4	4 4	4.5 F	ب ج د	4	ir ir	C.	٠ ٦	ر. ع	F. 7	ب ح	ر. 14
OO SAT		11.3	11.4	12.5	13.1	12.1	12.4 108	11.1	10.0	10.2	10.0	10.0	10.3
τ. 		11.21	966	11.90	27.4	1910	456	1160	515	r T		241	3,1
NUMMER LAM SAMPI, ER		5000 5070	5000	5000 5040	5000 5050	5000	50.00 50.00	5040	5000	50.0		0508	. n. n.
STATION NU DATE TIME SA		422150.00 10/04/65 1155	A22150.00 11/01/65 1200	422150.00 11/29/65 1200	422150.00 01/03/66 1210	A22150.00 02/07/66 1140	A22150.00 A3/07/66 A945	622150.00 64708766 1130	A22150.09 05/03/66 1130	422150.00 66707766 1235	A22150.00 07/07/65 1340	A22150.00 CA712766 CB20	422150.00 09713766 0830

	i Č		152	167	104	113	127	127	119	121	130	136	139
	SUM SUM		:	:	:	;	:	:	158 159	:	;	:	183
MILLIGRAMS PER	2015		:	:	:	:	:	:	7.8	:	:	;	*
LL1684	œ		0.2	0.5	0.0	5.0	0.2	0.1	0.1	0.1	0.0	0.1	0.2
Σ	u.		:	1	:	;	:	:	1	:	:	:	:
æ	E ON		1.8	2.7	1.4	1.9	:	.01	0.4 0.1	:	1,3	:	1.6 .03 1
TER ER LIT VALUE	יר היי		12	.39	13	17	15.	16	.37 13	.34	.39	39	39 11
PER LI	\$0.00 \$0.00		:	1	:	;	:	:	.37 13	;	:	;	.25
MILLIGRAMS PER LITER MILLIGULIVALENT PER LITER PERCENT REACTANCE VALUE	HC03	13c)	172 2,82	187 3.07	108	124	134	134	133 2.18 74	130	142	162 2•66	173 2.84 81
	E03	TE DAM (	.20	5.0	0.0	0.0	2.0	3.0	0.0	.13	5.0	0.0	0.0
VI SIV	¥	below black butte dam (13c)	;	:	;	:	:	:	.02	:	:	:	.03
STITUE	Z Q	ELOW BLA	13.	• 14	10	13.	15.	.61	.57 19	55.	• • • • • • • • • • • • • • • • • • • •	.61	21. 26. 91.
MINERAL CONSTITUENTS IN	δ	PREEK BE	:	;	:	:	:	:	30	:	:	:	15
MINER	CA	STONY CREEK	;	1	;	;	:	:	30	:	1	:	31
о С С	F 10		341	362	25 A	283	311	305	288	287	302	318	330
a	FLO		8.5	8.5 8.1	8.3	7.9	8 8 6 4	8. 8. 8. 8.	8 B	4.4 7.8	7.7	7.9	7.9
G S	J		8 9 1	45 F	1 7 7 L	4 ت	r 0.	r 6.	5, F	A P	73 F	7. 17	6. P
C	SAT		10.0 108	11.0	13.4	12.0 102	13.1	13.3	100	10.6 119	103	8.9 105	ς <del>σ</del>
ī			3.18 128	7.68	6.52 2840	4 • A5 675	2.22	3.26 141	3.34 155	54.7	4,33 436	39.8	3.10
AUMHER GA I	SAMPLEP		5000 5050	5000 <b>5050</b>	5000 <b>5050</b>	5000 <b>5</b> 050							
Z	TIME		A31110.00 10/07/65 0925	431110.00 11/04/65 1130	A31110.00 n1'05/66 1120	A31110.00 02/09/66 1140	A31110.00 n3/08/66 1145	A31110.00 04/05/66 1215	A31110.00 05/04/66 1020	A31110.00 06/08/66 1200	A31110.00 A7/13/66 A835	431110.00 08/10/66 1000	A31110.00 09/13/66 1445

	1	ı Ş		156	9	224 95	188	118	126	9 6	or or	110	120	132	138
	LITER	SUR SUR		;	;	;	:	;	;	:	126	;	;	;	181
		2018		:	:	:	:	:	;	;	80 30	:	;	;	10
	MILLIGRAMS PER	S.		5.0	4.0	0.0	0.0	0.1	0.1	0.1	0 • 0	0.1	0.1	0.1	0.3
	M I L	L.		;	;	;	:	;	1	;	;	:	:	;	1
	~	E0N		1.7	2°9	.01	0.5	1.9	.01	9.0	0.5	;	0.9	;	0.8 .01
	R LITER ALUE			13 1	25 %	38 (	36	45.	34	4.4	.13	.34	34	.34	39 0
	MILLIGBRAMS PER LITER MILLIEGUIVALENI PER LITER PFRCENI RFACTANCE VALUE	504		;	;	-i  -	 -	:	;	;	15 4 31 .	:			12.25.
	AMS PE UIVALE RFACT	HC03 S		2.90	214	160 2.62	150	116	131 2.15	82 1.34	98 1.61 79	123	144	156 2.56	169 2.77 79
SURFACE WATER	LLI68 LLIEG RCFNT	Į Į	0						1.0 1.0.03		1.		13 2.		
A CE		60	(13f)	7.0	4.0 .13	5.0	3.0	0.0		0 0	0.0	•13	<b>;</b>	.13	2.0
	15 IN	¥	FRUTC	;	:	:	1	1	1	1	1.0	1	1	;	1.0
SIS OF	TITUEN	۲ 4	STONY CREEK NEAR FRUTO	13.	5.05	25	23	. 87	15	5.7	.32	- <del>1</del>	13	13	4 6 1
ANALY	L CONS	M.G	ONY CRE	:	1	;	:	7	:	1	5.2 243 20	:	1	;	1.40
MINERAL ANALYSIS	MINERAL CONSTITUENTS IN	CA	S.	1	1	;	:	:	1	1	1.35	:	1	;	1.35
Σ		F L D		345	4	515	414	326	305	174	702	5.5.5	et.	866	321
	0 _ 2	ב		÷.	x .	٦. ع	α •	£	œ.	œ ~	9.0	30 4	ος σ	æ r	a. 4
	7 E	<u>.</u>		F 6.2	14 17 17	F	14 U 7	F 6.5	C 4	ι.	և ፕ ሆ	L	45 F	51 F	ь 6
		SAT		10.5	12.0	11.7	15.5	14. H	15.0	12.4	9.5 94	***	4. 0.	σ τ • σ	٠ . د . د
	1			111	3.26	7.87	132	5.10	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.17	4 • 3 0 4 6 5	40.4	4.13	4.31	36.74
	A SHEEL	Ω		5050	5000	5000	11,11	J. Autt	1.5 3.5	1 3 K C 1	1977	200	5050	5020	. 20.2
	STATION NUM			431250.00 10/01/65 0900	031250.00 11/01/65 0915	A31250.00 12/01/65 0930	A31250.00 A1/03/66 A930	431250.00 02/01/66 1930	011250.00 01/10/En	A31250.00 04/01/65 0930	431250.00 05/02/46 0830	031250.00 06/01/66 0900	431250.00 ^7701766 0900	A31250.00 08/14/46 0830	431250.00 09/01/56 0815

TABLE D 2

	3	Į Q		247	242	155	15	134	104	53 3	° 4	eri eri	178	191
	LITER	SUR SUR		:	;	;	:	;	:	}	787	:	:	;
		2018		:	:	;	:	:	;	:	8.	:	:	:
	MILLIGRAMS PER	or or		0.1	0.1	0.0	0.1	0.1	0.1	0.1	0 • 0	0.0	0 • 0	0.0
	Σ	L.		1	1	;	:	:	;	1	:	:	:	:
	α	€ ON		1.3	.03	0.2	.01	0.3	;	0.3	0.3	:	.02	;
	ER LITE	ָ כר כר		.56	.68 .68	5.0	.03	3.4	4.0.	0.8		3.0	9.0	7
	ENT PE	30¢		:	:	1	:	;	;	:	111 233 17	;	:	i
OX Lad	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PROCEST DESCIONES MAINE	HC03		176	156 2.56	134	1.21	132	109	61	66 1.08 81	112	149	140
SURFACE WATER	MILLI	CO3	ı (13d)	2.0	2.0	13	0 • 0	13	0.0	0.0	0.0	2.0	6.0	,
	TS I	¥	PASKENT	1	;	;	;	:	:	:	0.6	;	:	;
SIS 0F	TITUEN	4	THOMES CREEK NEAR PASKENTA (13d)	13	21°	8. 36.	3.0 13	6. 30	5,3	2.5	3.0	5.1	.37	:
ANALY	CONS	ē.	ES CREE	ŀ	;	:	:	:	:	:	3.0	ŀ	;	;
MINERAL ANALYSIS OF	MINERAL CONSTITUENTS IN	٥	THOM	:	;	:	;	:	:	:	19 20 70	;	;	
Σ		1.48 FL0		572	520	328	164	281	223	115	131	242	194	0
	۵. ا	FLAH		90 80 5 4 40	m m ac ac	4.6	8.1	8.5 4.9	7.9	7.7	7.5	ж. 3	8 8 2.5	a
	ć	τ. Σ		7 n F	96 F	4 7 F	4.3 F	4 F	45 F	52 F	57 F	77 F	λ. Γ	0
	•	SAT		10.7 118	10,3	12.0 105	12.5	12.7	12.1	11.1	10.0	102	100	
	:			3.83 8.0	3,85 9,2	4 • 56 66	7.25	4.93 300	5.17	5.92	5.32	4.23 95	3.69	,
	NUMAER	SAMPLER		5000 5050	5000 5050	5000	5 0005	5000 5050	5000 5040	5000 1 5050	5000	5000 5050	5000 5050	
	z	DATE TIME SA		432120.00 10/07/65 1025	432120.00 11/04/65 1230	A32120.00 12/02/65 1120	A32120.00 01/06/66 1230	432120.00 02/09/65 1045	A32120,00 03/08/66 1055	432120.00 04/04/65 1105	432120.00 05/04/66 0915	A32120.00 n6/08/66 1250	432120.00 07/13/65 0745	

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432120.00 08/10/66 0925

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		SOS SOS		;	:	;	;	:	1	;	145 148	;	552
	4S PER	2015		:	:	;	:	:	;	:	*	:	<b>*</b>
	MILLIGRAMS PER	œ		0.1	0.1	0.0	0 • 0	0.1	0 • 0	c •	0 • 0	0.0	0.1
	ĭ	L.		;	;	;	;	;	:	:	;	:	;
	œ	£0N		;	:	:	:	:	:	:	0.5	;	0.9
	MICCIGNAMS FEM CIPER MICCIEDUIVACENT PEW LITER PERCENT PENCENAME MALLIC	2 LOF		123	117 3,30	\$ 89°	1.8	. 23	7.8	5.2	.31	30 .85	207 5.84 63
9		S04 S04		:	;	;	;	;	ï	;	9.0	:	125.5
97400	MILLIEGUANS PER LITER MILLIEGUIVALENT PER I PERCENT PERCIANCE VAL	HC03		217	208 3.41	207	100	184 3.02	181	34.1	132 2.16 79	174	176 2.89 31
	MILLI	503	(13e)	10	16 •53	9.0	0 • 0	9.0	0.00	0 • 0	2.0 50.7	12	8.0 .27
	TS IN	¥	PASKENTA	:	:	:	:	:	1	;	0.6	:	1.6
	TITUEN	Z 4	elder creek near Paskewya (13e)	60	2.44	.7.	.20	1.0	17	5.0	9.4 15.	83	0 0 4 C C 1
	CONS.	5 G	IR CREE	;	;	;	;	;	;	;	114	:	33 2.71 4
	MINERAL CONSTITUENTS IN	CA	ELDE	;	;	;	:	;	;	:	151.	:	2.15
		F. E.		764	723	687	185	356	34.7	166	261	602	276
	1 4	. r		8.3 8.3	£ 8.	σ. α. . τ. υ.	0.4	00 00 00 00	α. α. α. ν.	5.5	m /.	н. 1.	ac ac n.v.
	Q.	÷		<u>د</u>	3. Tr	ر4 به	7 0.2	٠ 6٤	47 F	رد ع	با 1	R. F.	7 7
		SAT		9.9 7	10.5	100	103	13.0 7	12.1 4	10.0	4.6	2. K	4. E
				4.4	1.22 1	1.73 1	4.53 1 875	1 62.2	7.11	127	18.0	8.4.	1.04
	NUMHER	a		5000 5050	5000 5050	5000 5050	5110 A 5050	5000 5050	5000 5050	5000 1 5050	5010 5050	5000 5050	505n
	STATION NUM			433110.00 10/07/65 5 1145 5	433110.00 11/02/65 5 1350 5	433110.00 12/02/65 5 1245 5	433110.00 01/06/66 1400	433110.00 12709766 1915	433110.00 63708766 5	\$33110.00 \$4706766 \$1000	433110.00 05/04/66 9835	433110.00 06/08/66 5 1400	433110.00 69/13/66 1315 5

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

1 U		12	4 (/	37	21 8	23	32	33 0	36	38	0 -	1 2
LITER TOS SUM		;	;	;		;	;	:	62 62	:	:	50 G
MILLIGRAMS PER B SIO2		:	:	:	:	:	:	:	15	:	;	15
LIGRAN		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7I ×		;	:	:	;	;	;	:	;	:	;	:
α. Θ		:	:	:	:	:	:	:	.01	:	:	.01
ER LITE VALUE CL		.06	.06	1.8	0.8	1.9	0.9	1.6	2.8 .08 .9	1.9	2.2 .06	1.8 .05 .5
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALUE 03 HC03 SO4 CL N		;	;	:	:	:	:	:	6.0 .12 13	;	;	4 . 0 10 20
GRAMS FEGUTVAL		85	.84	.72	16	24. 84.	4 6	04.	43 .71	46.	84.	85 85
MILLIG MILLIE PERCEN	2 <b>4)</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0
	ciear creek near igo (12d)	;	:	:	;	:	;	:	.01	:	ŀ	0.5 .01
ri Tueni NA	EK NEAF	3.0 •13	2.9	3.4	3.5	3.4	••• •••	4.2 1.3	5.1. e.1.	3.4	3.5	3.5
. consı	EAR CRE	;	:	:	:	:	:	:	3.9 35	;	+	52 52 52
MINERAL CONSTITUENTS IN CA MG NA K	5	:	;	;	:	:	:	;	6 · 4 · 0 · 4 · 0 · 4 · 0 · 4 · 0 · 4 · 0 · 4 · 0 · 0	:	;	6.7 33
EC LAB FLD		95	3	a. ac	η. α	t.	a.	æ	c o	16	<b>3</b>	86
FLA FLO		7.9	7.9	7.4	7.5	7.7	7.9	7.4	7.7	7.0	7.0	7.7
TF 4P		r.	7. F	47 F	4 T	ι. Υ	7 7	5.3 F	7 7	ι. Γ	7 7	٦. ٢
SAT		، ۲۰۰۱ ۱۰۲	11.0	10.0	12.0 105	11.4	12.6	11.9	10.7	11.3	10.5 109	0.01
ŗ ŗ		57	2.46 105	2.71	1150	6.340	2.42	00.00	a £ • 5 . 7 . 7 . 7	45.74	95.5	05.34
NUMMER LA3 SAMPLER		7,000 0,000 0,000	5000 5080	5000 5070	5000 5050	5000 5050	7007 0407	5050 5050	5000 5000 5000	5000 5040	2000 2000	5000
STATTON NU DATE TIME SA		434130,00 10/07/45 1420	044130.00 0441 0441	434130.00 12/13/45 1630	A34130.00 01/05/66 1430	A36130.00 02/04/66 1450	434130.00 03/02/46 1350	A34130.00 04/13/66 1245	436130.00 65/03/66 1000	∆36130•00 06/03/66 0925	436130.00 67/67/66 1015	434130.00 09/02/66 0445

α.				
NOS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ů !	:	;	75.
S102 PER 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	;	:	:	50
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CALUE	. 01 2 4. 0	9.0	0.4	0.0 20.5 2
SANT LI CONTROL	0. E	;	:	0.0
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(8t) (8t) (8t) (8t) (9t) (9t) (9t) (9t) (9t) (9t) (9t) (9	0	0 • 0	0.0	0.0
MULTE CONSTITUENTS IN MILL MG NA K CO3 BUTTE CHEEK NEAR CHICO (S4) 3.6 0.0 5.2 0.0 2.4 0.0 2.4 0.0 2.4 0.0 3.5 0.0 2.4 0.0 2.5 0.0 3.5 0.0 2.5 0.0	0°	1	:	9.0
TITUEN BA B B B B B B B B B B B B B B B B B B	3.7 3.7	3.4 •15	.17	3.5
MG MG CONS	56 1	;	;	4.7 39
MINERAL CONSTITUENTS IN  CA MG NA K  BUTTE CHEEK MEAR CHICO  15.0  15.0  15.0  15.0  16.1  17.5  18.5  19.5  10.0	ዱ ሲ ! ጃሊ !	;	1	- 4 R
FEC 101 111 111 111 111 111 111 111 111 11	٦,	102	108	111
7	7.3	7.8	α α 	7.9
7	T.	61 F	7 1 5	a r
10.3 10.7 10.7 10.7 10.4 10.4 10.6 10.6 10.7 11.6 11.6	10.3	9.8	4.0	10.6
6.4. 11.43 11.78 11.78 22.2 2.30 22.30 22.30 22.30 22.30 22.30 22.30	470 1.41 234	1.52	1.35	1.47
717	5050 5050 5050 5050	5050 P	5050	5040 5040
STATION NU DATF 11ME SA 11/03/65 11/03/65 11/03/65 11/03/65 15/01	05/04/66 1310 041110.00 06/09/66	041110.00 07/13/66 1100	041110.00 08/10/66 1250	041110.00 09/14/65 0900

MINERAL ANALYSIS OF SURFACE WATER

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	œ	2 2		_	-	r.									- 11
		S O N		:	:	1	;	;	:	1	116	;	1	;	146
	4S PE	2018		:	;	:	1	:	:	:	33	:	:	:	35
	MILLIGRAMS PER	ar		0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	
	¥	LL.		;	:	:	:	:	:	1	;	:	;	:	:
	œ	E ON		:	:	:	:	;	:	:	.01	:	:	:	1.2
	MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER	PERCENT REACTANCE VALUE 03 HC03 SO4 CL		7.2.	т. 2.6	3.6	.03	1.5	.06	9°3	6.0 .17 .10	.26	10	12	.39 17
	PER LI	S04		ï	:	:	;	:	:	:	5.0 .10 6	:	:	:	6.50
X L	MILLIGRAMS PER LITER MILLIEGUIVALENT PER	HC03		104	110	1,21	33.	77.	1.00	1.08	84 1.38 83	1.59	104	112	1111
SUMPACE MAIEN	MILLI		co (85)	2.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0
304	Is Is	¥	AR CHI	!	:	;	ŀ	;	;	:	0.9	:	:	:	.03
212 04	MINERAL CONSTITUENTS	۹ z	BIG CHICO CREEK NEAR CHICO (85)	13	• 6.	8.2 •36	3,3	4.9 15.	4.5.	6.7	6 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5	• 61	15.	17.	51. 7.
ANA	CONS	ð.	CHICO	ï	;	:	:	:	:	:	5.3 .52	:	ŀ	:	9.8 72
MINERAL ANALISIS	MINERA	CA	BIG	;	:	1	;	;	;	;	14 70 54	;	:	:	9.4. 08.
Σ	S.	LAB FLD		206	210	144	67	<b>6</b>	115	122	162	192	502	215	950
	ā.	r FL0		8.3 8.1	7.9	8.1 7.5	7.1	8.1 7.3	7.5	7.5	7.9	8.3	80 80 4 67	T 00	7 6 7
	•	F M M		43 F	55 F	4.5 F	4 0 1	4	51 F	at Fr	63 F	67 F	70 F	7 7 1	63 F
		00 <b>S</b> AT		9.9	10.8 102	12.5	11.6	12.8 105	12.0 108	10.5	9.8 107	9.7	9.5	9.8	10.0
				25.33	2.36 28	2.73 59	4.47	3.54	3.03 125	2.89 96	2°25 45	2.37 31	2.27	19	22 22
		LA9 SAMPLEP		5000 5050	5000 5050	5000 5050	5000 5050	5000 5050	5000	5000 5050	5000 5050	5000 5050	5000 <b>505</b> 0	5000 <b>505</b> 0	5000
	Z	DATE SA		10/04/65 10/04/65 1345	A42110.00 11/04/65 1000	A42110,00 12/01/65 1600	A42110.00 01/06/66 0940	442110.00 02/08/66 1505	A42110.00 03/08/66 1445	A42110.00 04/06/66 1425	A42110.00 n5/04/66 1235	A42110.00 n6/09/66 n900	A42110.00 07/13/66 1015	A42110.00 08/10/66 1210	A42110.00 n9/14/66 0830

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	SUM		:	;	:	:	;	:	:	103 86	!	;	:	177
MILLIGRAMS PER	5018		;	ŀ	;	:	:	:	:	55	:	;	;	38 1
LLIGRA	œ		6.5	0.5	4.0	**0	• 0	**0	2.0	2.0	0.3	<b>3</b>	<b>7.</b> 0	٥ ب
ĭ	l <u>u</u>		;	:	;	;	;	:	:	;	;	1	;	1
æ,	E ON		;	;	;	;	;	:	:	0 • 3	:	;	:	1.1 .02
MILLIGRAMS PER LITER MILLIGOUIVALENT PER LITER PFRCENT BEACTANCE VALLE	יאר כר כר		61.	18	25.	16	14 39	10	.13	5.5	4.6	14.	18	21 23
MILLIGRAMS PER LITER MILLIEGUIVALENT PER I PFRCENT RFACTANCE VAL	S04 S04		:	;	:	:	:	:	;	37	:	1	:	2 2 2 1 7 1
IGRAMS IEQUIV	HC03		68 1•12	63	56.	\$ 68 4 0	92	56.	29 84	32	37	80	889.1	94 1,54 59
	600	(88)	0 0	0.0	0.0	0.0	0 0	0 • 0	0.0	0.0	0.0	0.0	0.0	0.0
MINERAL CONSTITUENTS IN	¥	MILL CREEK NEAR MOUTH	ŀ	:	:	;	;	:	:	 6 4 4	:	:	:	8.8 0.7
STITUE	₫ Z	WEEK NEA	٠ ٩	16.	70	13	7.5	12	7.1	7. H. 34.	100	65	17.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
AL CON	9	MILL CI	:	;	;	:	:	:	:	2.53 222	;	:	;	10 32
A I NE	O		ŀ	;	;	:	1	1	;	* 4 4 C & C	:	;	:	700
FC LAB	FLD		908	202	194	159	129	164	6	117	143	324	241	۶ ۶
	F1.0		7.9	A.2	α α C C	8°.0	7.4	7 F	7.7	7.5	7. H. 7.	7.4	α α 	1
TEMP			72 F	R F	4 7	J 3	ę 4 P	7. P	ε. Ε.	ر د م	C 4	7.3	م د د	€ 0.
0	SAT		10.7	11.5	12.5	12.7	13.1	13.6	11.9	11.0	10.0	11.5	10.9	11.0
ı e	e		1.0	2.0	7.0	2.5	ç	r.	150	203		2*0	110	40
NUMBER LAB	SAMPLER		5000 5040	5000 5050	5000	5000	5000 5050	5000 5050	5000	5000 5050	5010	050S	5050	0205
STATION NU DATE			A44110.00 10/06/65 1420	A44110.00 11/03/65 1420	A44110.00 12/13/65 1410	A44110.00 01/17/66 1230	024110.00 02/10/66 1030	A44110.00 03/02/66 1110	044110.00 04/12/66 1200	05/05/00 05/05/66 1130	06/110.00 06/02/66 1025	044110.00 07/04/66 0950 5	A44110.00 08/01/66 1000 5	09/01/66 09/01/66 1300 5

Z	NUMHER			,	ď		MINERAL	CONS	MINERAL CONSTITUENTS IN	N I S	MILLIG	MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER	ER LIT	ER R LITE	œ	MILL	MILLIGRAMS PER		œ	
DATF TIME SA	SAMPLER	i c	SAT	F 2 0	FLD	FLD	CA	5 S	۵ 2	¥	PERCEN CO3 H	PERCENT MEACTANCE VALUE 03 HC03 S04 CL	SO4		E ON	L.	18 н	2018	SUM	I I I I
							ANTEL	OPE CRE	antelope creek near red bluff (88e)	RED BLO	FF (88e)									
845110,50 10/06/65 1320	5000	1.92	10.4	F 1.8	4 .c.	144	:	:	c 4	;	2.0	1.30	:	7.0	:	1	0.1	:	:	Q. 0
A45110.50 11/03/65 1320	5000 5050	1.95	11.7	<u>.</u>	ж. г.	156	:	:	9.4	:	1.0	82 1,34	;	6.1	;	:	0.0	:	:	57
445110.50 12/13/65 1500	<b>5</b> 000 5080	40.5 43.04	10.0	4 7 F	rr vc	151	:	;	0 ·	;	0.0	1.31	:	7.6 .21	:	;	0 • 0	:	:	57
A45110,50 01/17/66 1325	5000 5050	ř	13.1	4.3 F	7.0	118	:	:	.32	:	0.0	1.18	:	1.9	:	;	0 • 0	:	:	000
A45110,50 02/09/66 1440	5000 0 0 0 0	124	13.0	4.3 F	7.0	109	;	:	5. 6.24	:	0.0	1.02	;	80.	:	;	0.1	:	:	e 4 0
A45110.51 03/02/65 1030	5000 5050	0 & 1		45 F	7.2	1 09	:	:	6.5 45.5	:	0 • 0	6 8	;	3.0	:	:	0.0	:	:	m 0
A45110.50 64/12/66 1105	5000	44	11.A	a a	7.9	75	:	:	4. Sa	:	0.0	049	:	1.2	:	;	0.0	:	:	8° 0
A45110.50 05/02/46 1045	5000 5050	124	10.8 110	<u>.</u>	0.7.	<b>₹</b> α	6.6 8.8 8.8	3.6 .30 35	2.50	8.00	0.0	08° 08° 50°	1.0 2.0 2.0	0.05	0•3	:	0.0	52	69	32
845110.5n 06/02/66 0940	5000 5050	š	10.6	7. 1.	r r v c	128	:	;	7 . 3 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 .	:	0.0	1.13	:	5,3 15	:	;	0 • 0	;	:	r <sub>0</sub>
A45110.50 07/04/66 1030	5000	ÇŁ	ر د 2 د د د د د د د د د د د د د د د د د د	7.5 F	, c	154	:	:		1	0.0	1,31	:	.20	;	!	0•1	:	:	1, o
445110.57 19701766 1145	5000 <b>5</b> 040	٣	3. 1	4	α α. 4 ζ	163	- e. c. r.	7.4 .61 35	2. 4. S	1.3 .03	3.0	82 1.34 80	0 + 0 4 0	119	0.1	1	0.1	37	114	¢ ° °

TANES DE SUBFACE MATERIA

5,4 6,1 1,6 0.0 66 3.0 1,3 0.5 0.0 35 44 .27 .04 .04 .06 .04 .01 37 23 3 91 5 3 1 7,0 0.0 73 1,2 0.0 30 7,9 0.0 84 0.1 40 0.0 334 1,38
6.1 1.6 0.0 66 3.0 1.3 0.5 2.7 .04 1.08 .06 .04 .01 2.3 3 91 5 3 1 7.0 0.0 73 1.2 7.9 0.0 84 0.1 3.3 0.0 84 0.1 3.4 0.0 84 0.1
7.0 0.0 73 1.2 7.3 1.20 .03 40 0.1 40 0.1 40
7,9 0,0 84 0,1 40 0,0 ,34 1,38

10		<b>6</b> 0	m 0 •	62 0	51	25		35	38	51	<b>6</b> °	9100
LITER TOS SUM		:	;	;	:	:	;	;	76	:	:	146
MS PER S102		;	:	;	:	:	;	;	25	;	:	35
MILLIGRAMS PER R SIO2		0.0	0.0	0.0	0 • 0	0.1	0.1	0 • 0	0.0	0.0	0.0	0.0
M M		:	:	;	;	;	;	:	;	;	:	:
NO3		:	:	:	:	:	ŀ	;	0.3	;	;	.01
TER ER LITE VALUE CL		5.5	4.0.	. 23 23	3.9	1.6	5.7	1.2	2°0 90°	3.0	5.2	7.8 .22 10
PER LI		:	;	;	;	:	;	;	5.0 10	;	;	.10 .10
MILLIGRAMS PER LITER MILLIEGOLIVALENT PER LITER PERCENT REACTANCE VALUE 03 HC03 SO4 CL N		1.46	85 1.39	1.30	960	e 4.	92 92	69.	n α α ο σ 4	1.10	94	108
MILLI MILLI PERCE CO3	(88a)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0 13
S X	near millville	;	;	1	;	:	;	:	9.0	i	;	.0.5
MINERAL CONSTITUENTS IN CA MG NA K		.3A	.38	0 ° 6.	4.5 85.	3.7	6.6	.20	200	••• ••• •••	9.9	52.4
L CONS	сом скеек	:	;	i	:	:	;	:	3.2	:	;	33
MINERA	00	:	:	;	:	;	;	:	0.0 0.0 1.0 1.0	;	:	90° 14
EC LAB FLD		175	162	163	118	ô.	126	6	96	126	174	208
P + L D + L		8.3	7.5	9.2	7.7	7.8	7.7	7.9	7.9	7.6	8.1	4.F
TE MP		47 F	رج 1	r 8	£ 3 F		2, pr	52 F	۶. ۲	45 F	e. r	72 F
00 SAT		9.7	10.1	12.6	12.7	12.1	12,7	11.0	9.9	10.6	9.8 123	6.6
		1.90	2.14	7.52	3.24	3720	3.66	4.54	4.13 388	2.43 148	1.64	1•51 15
NUMBER LAM SAMPLER		5000	5000 5040	5000	5000 5040	5050	5000 5050	5000 5040	5000	5000 5050	5000	5000 <b>5050</b>
STATION NU DATE TIME SA		448110.00 10/07/65 1045	448110.00 11/04/65 1100	A48110.00 12/13/65 1035	A48110.00 01/17/66 1500	A48110.00 02/04/66 1135	448110.00 03/07/66 1445	04/13/66 04/13/66 1410	A48110.00 05/07/66 1445	A48110.00 06/02/66 1335	A48110.00 07/06/66 1300	A48110.00 09/01/66 0820

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74.		0.0				: : : :	· · · · · ·					<b>.</b> .
(19)		!										
FEATHER RIVER NEAR OROVILLE 8.1 101 3.9 6.5		;							× •	ν·	× •	χ .
ATHER RIV		104										
1140.00 FEA		© **			_	-						
A 5 114 10.5 110	OTT		11.4	11.4 111 13.1	11.4 111 13.1 109 13.4 110	11.4 111 113.1 113.4 113.4 113.7	11.4 111 13.1 13.4 13.4 11.7 11.7 11.7	11.4 111 100 113.4 113.7 111.8 111.8	11.4 111 13.1 13.4 13.4 13.7 13.7 13.7 11.8 11.8	11.4 111 109 113.4 113.4 113.7 111.8 111.8 111.8	11.4 111 113.1 113.1 113.7 113.7 113.7 113.7 113.7 113.7 113.7 113.7 113.7 113.7 113.7	11.4 111.1 1009 113.4 110.5 111.8 111.8 111.8 110.2 100.2
A51140.00 2.37 10/08/65 5000 3140 0945	1006	715765 5000 0930		5000 5000 5000	5 000 5 5 000 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	\$ 2000 2000 2000 2000 2000 2000 2000 200	5 5000 5 5000 6 5000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

TABLE D 2

MINFHAL ANALYSIS OF SURFACE WATER

į	I O		40	32	32	7 ·	9 O	36	<b>5</b> 0	<del>1</del> 0	16	ë °	0 0	0	98
LITER	SUR		:	;	;	;	:	;	<b>:</b>	:	32	:	;	:	76
IS PER	2018		:	:	1	:	:	:	:	;	7.6	:	:	:	:
MILLIGRAMS PER	x		00.	00.	00.	00.	00•	00.	• 05	• 05	000	00.	000	00.	00.
MIL	u.		;	;	1	;	1	1	1	;	:	;	;	:	:
α	NO3		:	;	;	:	:	;	1	1	0.7 .01	1	;	:	1.4
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER	VALUE. CL		1.5	0.5	0.5	1.0	.02	.02	.01	.01	0.2 .01 3	0.5	1.9	5.5	1.0
EN LII	SU4	( pe	;	;	;	;	;	1	1	;	1.0	:	;	:	1.0
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITE PROCEST DE CITALE	HC03	NEAR YANKEE HILL (19d)	94	94.	999	46	44	947.	32.	330	.36 90	. 41	97 1.59	107	19
MILLIE	CO3 .	NKEE H.	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0 • 0	0.0	0.0	0.0	0.0	0.0
S IN	×	EAR YAI	;	;	1	1	:	1	1	;	0.0 2	1	:	:	1.2
MINERAL CONSTITUENTS IN	A A		.17	.13	2.4	2.9	2.3	2.7	2.3	1.6	10.07	2.4 .12	3.4	4.2 11 x	4°5
CONSI	мG	ST BRAI	;	;	;	1	;	;	1	1	0.6	;	;	;	v.,
1 INERAL	CA	ER, WE	;	1	;	1	1	1	1	;		1	;	:	11
	FLO	FEATHER RIVER, WEST BRANCH,	155	75	75	65	18	90	40	4	66.	7.3	15,7	169	115
ø.	FLO	FEATH	7.9	?.	7.9	7.8 7.3	7.5	7.9	7.6	7.4	7.2	8.0	7.6	8.2	н.1
	۳ 2 آ	00.00	1 69	;	53	45	1 2	1 2	64	. 12	53	19	. 92	192	1
	SAT	A 5 2100.00	10.1		11.2	12.5 106	12.9 104	12.3	12.0 107	12.0 110	10.9	9.5	99	9.9	0.7
	و. ۲. ت														
	SAMPLER		0.000	5343	5000	5100	5200	0005	0005	0005	5700	0005	5000	5000	01
STATION NUMBER	DATE		A52100.00 10/15/65 1015	A52100.00 11/16/65 1230	A52100.00 11/17/65 1230	A52100.00 12/03/65 1200	452100.00 01/12/66 1240	452100.00 02/04/66 1330	A52100.00 03/10/66 1130	A52100.00 04/07/66 1130	A52100.00 r5/11/66 1120	A52100.00 06/09/66 1015	452100.00 07/20/66 1145	A52100.00 04/11/65 1115	A52100.00

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ON NC	Σ. A.				ī		MINERAL CUNSTITUENTS IN	. CUNS	TITUENI	12 JN	MILLI	MILLIGRAMS PER LITER MILLIGOUIVALENI PER LITER	EN LIT	ER R LITE	α	MILL	MILLIGRAMS PER		LITER	
DATE SAT	SAMPLER		1) () SAT	ξ	FLD	FLD	CA	46	A A	×	CU3	PERCENT MEACTANCE VALUE U3 HC03 SO4 CL	SO4		N03	•	8	2018	SUM	1 U
			A 5 3.	A 5 3140.00	FEATH	ER RIV	FEATHER RIVER, NORTH FORK, AT	RTH FO	RK, AT	BIG	BAR (19a)	а)								
A53140.00 10/15/65 '	2000		10.2	57	8.0	104	:	;	.17	1	0.0	1.02	;	20.	;	;	.01	;	;	4 0
A53140.00 11/17/65 '	5400	4.1	11.1	52	8.0	σ •	;	1	3.4	;	0.0	53	;	50.	;	;	00.	;	;	0
453140.00 12/03/65 '	0005	3.8	13.1	177	7.5	106	1	;	3.9	;	0.0	0 D	;	0.0	;	;	00.	;	;	\$ O
A53140.00 01/12/66	5000	3.99	13.1	41	7.5	112	}	ţ	3.4	;	0.0	72 1.18	:	1.0	1	;	00.	;	;	o- o
02/04/66 1245	5100		12.9	43	7.5	200	1	:	.17	;	0 • 0	1.02	;	1.2	;	;	00.	;	;	30 O
453140.00 03/23/66 1215	5300	4.1	12.4	8 7	н. 1 7.6	76	;	;	3.i .13	;	0.0	55.	}	9.0	;	;	00.	:	;	0
453140.00 04/07/66 1100	0005	9.2	11.6	52	7.7	22	;	1	2.6	1	0.0	4 t	;	9.0	:	;	. 01	;	;	31
453140.00 05/11/66 1000	0005		11.0	98	7.5	7.0	7	3.0 34	2.3 .10 .14	.02 .02	0.0	9.6. 44.	0.6.	0.6	0.6	;	00.	15	51	30
A53140.00 06/09/66 0930	5000	4.10	10,4	62	8.2	101	1	1	3.4	;	0 • 0	, , , , , , , , , , , , , , , , , , ,	;	9.0	;	;	0.0	;	;	S 0
A53140.00 07/20/66 1115	00005		9.9	7.0	7.1	101	1	;	5.1. ⊢1.	;	0.0	0 20	;	0.7 0.02	:	;	00.	;	;	E 0
A53140.00 08/11/66 1015	9100	9.5	9.4	73	7.7	102	1	;	5. d	!	0.0	1.02	;	0.0	;	;	00.	;	;	20
A53140.00 09/15/66 0930	0004		9.8	63	и. с 7.7	117	= 2,3	5.4 4.3 3.3	4.22	1.1	0.0	1.13	0.3	0.1	20.	;	00.	;	45	o o

TABLE D 2

STATION NU DATE	NUMBER LA3	1 9	00	TEMP	9 H 0 J		MINERA	L CONS	MINERAL CONSTITUENTS IN	IS IN	MILLIC	MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PFRCENT REACTANCE VALUE	EN LII	ER R LITE VALUE	<b>x</b>	MILL	MILLIGRAMS PER LITER	S PER	LITER	: •
	AMPLER		SAT		FLO	FLO	CA	МG	4	٧	603	нсоз	504		E ON	u.	9 S1	S102	SCE	ı Ç
			A 5 4	4320.00		INDIAN CREEK NEAR CRESCENT MILLS	K NEAR	CRESC	ENT MI		(174)									
454320.00 11/17/65 1030	5000		9.4	- 8	7.9	148	;	;	7.7 34.	:	0.0	78	;	6.5 80.	;	;	.01	;	;	57 0
A54320.00 .01/12/66 1020	2000	3.27	11.6 94	35	7.6	147	:	;	7.2	;	0.0	76	:	3.2	;	1	00.	:	;	36
454320.00 03/23/66 1100	2009	4.57 654	11.6	42	8.0	66	1	;	\$ . 	;	0 • 0	5.4°	:	1.1	1	;	00.	;	;	0 0
454320.00 05/11/66 0845	2000	4.47	93	55	7.4	35	14 7 4 0 4 7	4.0 .03	4.1.20	1.3 03	0.0	54° 54°	3.0 .05		0.6 .01	:	00.	19	78 68	36
A54320.00 07/20/66 0945	5000	1.35	7.7	69	7.1	257	;	;	15.	:	0.0	139 2.28	;	.26	;	;	- 05	:	;	108
A54320.00 09/13/66 0900	5000		9.4	80	7.6	256	2.4 1.40 5.0	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	15 23 3	1.8 .05	3.0 .10 2	143 2.35 85	, 10 2, 4	6.8 .19	0.8 01	:	0	;	158 139	104

MINEMAL ANALYSIS OF S

Ī	Ď		92	<b>6.</b> 8	58	38	0 0	33	8 ° °	00	0 0	4 0	72
LITER TOS	SUR		:	;	;	;	;	;	50	;	:	;	122
15 PER	2015		;	:	:	;	;	;	11	;	;	;	:
MILLIGRAMS PER LITER TDS	or or		00.	00.	00.	00.	.01	00.	00.	00.	00.	00.	. 20
Σ.	<b>L</b>		1	:	1	1	;	;	;	:	;	:	1
æ	NO3		:	:	:	:	:	:	0.5	1	ł	;	0.5 .01
ITFR PER LI	ე		2.3	1.6	.06	0.03	1.7	.01	0.8	50°	0.0	.07	20.
PER L	\$0 <b>\$</b>	_	1	1	1	1	;	;	0.0.	:	:	1	1.1
MILLIGHAMS PEH LITFR MILLIEGUIVALENÍ PEH LITER PFRCENI REACTANCE VALUE	HC03	NEAR MERRIMAC (19b)	и2 1.34	1.16	62	* 15	1.07	540.	e v.x	2 x	1.23	31	1.11 1.31
MILL	£00	ERRIM	1.0	0 • 0	0 • 0	0.0	0.0	0.0	0 • 0	0.0	0.0	0 • 0	0.0
12 12	¥	NEAR M	:	:	:	;	:	1	0.7 .02 .3	;	1	t	0.0 0.02
TITUEN	A A	FORK,	332	6.1	5.6	3.1	5.3	3.3	.13	3.5	5.4	6.7	\$ 5 E
MINEMAL CONSTITUENTS IN	9₩	IDDLE	;	:	;	;	;	1	1.7	;	;	;	· • • • • • • • • • • • • • • • • • • •
MINERA	CA	FEATHER RIVER, MIDDLE	1	1	1	1	1	1	5 . 4 . 4 . 7 . 3	:	1	1	5 22
F.C.	9	ER RI	156	151	1 30	<b>∾</b>	122	78	r x	<del>2</del>	137	153	162
7 7 7 7	5	FEATH	8.2	ĕ.≥ 8.1	7.5	7.h 7.5	8.0 7.1	7.3	7.5	7.9	8.3	7. 4	7.5 8.1
T B B		5 5100.00	- 09	52	07	41	42	51	53	99	6 7	7.5	- 65
		A 5 51	12.2 130	11.4	12.8	13.2	13.6	11.6	10.7	10.1	9.5	8.9	9.6
6.4.	2		5,85	5.92 2030	6.48			8.79	8.65	6.75	5.72	5.40	1660
	a		0008	0005	5000	5000	2:00	0005	5000	6000	6062	5000	00005
STATION NUMMER DATE			A55100.00 10/01/65 1230	A55100.00 11/04/65 1330	A55100.00 12/07/65 1400	A55100.00 01/14/65 1200	A55100.00 03703765 1130	455100.00 04714765 1300	A55100.00 N5/11/66 1215	455100.00 04/02/46 1140	455100.00 07/07/65 1200	A55100.00 A8/04/60 1215	A55100.00 09/02/65 1130

TABLE D 2

TABLE D & MINEMAL ANALYSIS OF SURFACE WATER

ĭ	Į,		16	19	180	0 0	0 0 N	880	0 0	15	0	20	17	0
	SUM		;	:	;	;	;	;	:	31	:	;	ł	30
IS PER	S102		:	;	:	:	:	:	;	12	;	;	;	;
MILLIGRAMS PER	x.		00.	• 00	• 00	00.	00.	.02	00.	00.	00.	00.	00.	.10
ΞI	Le.		;	1	;	:	;	:	1	1	;	1	;	1
2	N∪3		:	ì	1	;	:	:	;	0.4 0.01	;	;	;	0.0
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALUE	CL		0.0 0.03	.03	.01	.01	50.	5.1.		0.6	.01	1.0	6.0 6.03	0 • :
PER LI	\$O\$	(19c)	:	;	;	;	;	;	;	1.0 20.4	:	1	1	0.0 10.
MILLIGRAMS PER LITER MILLIEGUIVALENT PER L PERCENT REACTANCE VAL	нС03	SA DAM	.33	94.	22 36	27	27.	ž č	2¢ 39	.33 81	£ 4.	.39	.38	.35 47.
MILLI	CU3	NDEROS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0 • 0	0.0	0.0
IIS IN	×	SLOW PC	;	1	1	;	;	1	1	0.4 0.01 3	;	;	ì	.0. 8.01
MINERAL CUNSTITUENTS IN	A A	RK, BE	3.5	2.4	6.5 0.5 0.4	2.0	2.0	3.2	6.0	.03.	2.3	.0.	5.0 .0.4	2.69
ר כממא	MG	UTH FC	:	;	;	;	;	;	1	0.6 50.	;	1	1	4.1 8.1. 8.1.
MINERA	CA	FEATHER RIVER, SOUTH FORK, BELOW PONDEROSA DAM	1	1	;	1	}	:	1	2	1	1	;	3.4
	15	IER RIV	4.2	30	4	£ 3	5.5	0.2	<b>3</b>	<b>6</b>	<b>4</b>	4	£ 3	1,
a =	-		7.7	7.7	7.4	7.4	7.9	7.4	7.7	7.3	7.7	7.5	7.2	7.,7
0 2	,	A 5 6080.00	62	57	47	41	43	45	52	55	<b>!</b> 09	<b>1</b> 99	72	\$ ;
0	SAT	A 5 6	12.5	10.3	12.0	13.2	13.6	13.0	12.0	11.6	10.8	11.5	9.6	10.5
I E	9													
Α	SAMPLER		5000	5000	5000	5000	5000	5000	5000	5000	5000	2000	5000	5000
STATION NUMBER	TIME		A56080.00 10/01/65 0930	A56080.00 11/08/65 1105	А560Н0•00 12/07/65 1045	A56080.00 01/14/66 1050	A560A0.U0 02/04/66 1015	A560A0.00 03/03/66 1030	A56080.00 04/14/66 1015	A560R0.00 05/11/66 1030	A55080.00 06/02/66 0900	A560R0.00 07/07/66 0930	A560R0.00 08/04/66 0930	A560R0.00 09/02/66 0930

2	Į,			11	0 M	27	<b>:</b> -	55
MILLIGRAMS PER LITER	SOF		:	:	:	4 4 0 4	:	0 4 0 4
S PER	2018		;	;	;	13	;	:
LIGRAN	10		• 01	00.	00.	.01	00.	00.
MIL	L		;	;	:	;	:	;
ι Σ	NO3		ŀ	:	:	0.7 .01 .2	;	0.6 .01
TER ER LIT	C .		1.1	1.0	1.0	0.5	0 • 0	1.5 .04
LENT P	504		+	:	1	3.0	:	
MILLIGRAMS PER LITER MILLIGOUIVALENI PER LITER PERCENI REACTANCE VALUE	нсоз		5. 2.	38	64.	3.2. 4.2. 7.8	5.8.	1,12 88
	603		0.0	0.0	0 • 0	0.0	0 • 0	0.0
15 IN	¥	1a)	1	:	1	0.5 .01	:	0.7 .02
HAL CONST	۵ 2	LLE (2	3.1	3.0	3.1 .13	1.0. 2.0.	2.7 .12	3.7
	A.G.	MARTVI	1	;	:	2.1. 51.	;	3.6 .30 24
	CA	near smartville (21a)	:	1	1	3 1 2 5	1	i i i
υ - α	FLD	RIVER	109	6	9	č.	95	125
ı -	0 -	YUBA	H.1	7.7	7.9	7.5	7.7	7.9
0. 2	-	A 6 1180.00	<b>:</b> 9	1 77	1 8 7	09		
g	SAT	A 6 1.	11.4	12.8	13.1	10.8	9.2	8.7
ī			1.82	3.05	2.17		1.52	
STATION NUMBER	TIME SAMPLEM		461100.00 11/05/65 5000 1245	A61100.00 01/07/66 5:00 1115	461100.00 03/03/05 1500	461100.00 05/05/65 5000 1030	461100.00 07/14/65 1045	461100.00 09/02/66 5000 1415

TABLE D 2

1	Į V		00	3 8	24	24	28	30	28	28	2 2	2 2	00 °C	1 1	
LITER	SUM		:	;	:	:	1	;	;	4 4 70 4	;	;	:	33	ı
S PER	2018		:	;	:	;	;	;	;	9.5	;	:	:	:	١
MILLIGRAMS PER LITER	10		00.	00.	00.	00.	00.	•01	00.	.00	00.	00•	00.	00•	
ıΙκ	L		1	1	;	1	1	:	1	;	;	;	:	:	
¥	NO.3		;	1	1	1	1	1	:	0.3	:	;	:	9.0	ľ
FER SALITE	5 7		1.1	9.03	7. · · · · · · · · · · · · · · · · · · ·	50°	1.5	2.3 .06	2.2	1.6 .05 8	40.	x	9.1	1.7 .05 .8	
LEN LI	S04		;	i	;	:	;	1	;	.0. 12	1	1	1	1.5 20.5 2	
MILLIGRAMS PER LITER MILLIGUDIVALENI PER LITER PERCENI REACTANCE VALUE	HC03		25 • 41	18	284.	65. 64.	32	4°.	32 •52	35. 80	30	25 84	35	55. 55. 85.	
MILLI	€03		0.0	0.0	0 • 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TS IN	¥	(22a)	;	1	!	}	;	1	1	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	ì	:	:	50. Se	t ·
MINERAL CUNSTITUENTS IN	A	AMERICAN RIVER AT NIMBUS DAM	1.7	20.0	.12	2.1	2.9	2.4	2.5	2.4	.12	2.2	2.2	2.7 .12 18	TABLE D
L CUN	₩6	r NIMBI	;	:	1	1	;	:	:	2.3 19	1	;	1	0.8 10 10	AT.
MINER	CA	IVER A	;	1	1	;	1	1	1	7.2 •36 52	;	;	1	4.4.4	
n -	FLO	ICAN R	25	4 00	9	63	72	44	7.1	67	14	0.9	69	4 9	2
7 Z	FLD		7.6	7.6	7.7	7.6	7.9	7.8 7.1	7.9	7.1	7.H 7.1	7.1	7.9	7.8	l
Į.		A 7 1110.00	65	9	57	1 48	1 4	67	545	57	, 09	62	\$ 9	1 69	
0	SAT	A 7 1	9.0	8.4	9.3	11.4 98	11.8	12.1 105	11.8	10.9	10.0	9.3 95	9.1 96	9.0	
Ţ	c		2.93	2.47	5.45		2,45		2500						
JMHER I AH	SAMPLER		5000	2000	5000	5000	2000	5000	5000	5000	5000	2000	5000	2000	
STATION NUMHER			A71110.00 10/04/65 1530	A71110.00 11/02/65 1445	A71110.00 11/30/65 1330	A71110.00 01/05/66 1300	A71110.00 02/07/66 1300	A71110.00 03/08/66 0900	A71110.00 04/06/66 0800	A71110.00 05/03/66 9	471110.00 06/10/66 0715	A71110.00 07/15/66 9	A71110.00 08/08/66 9	A71110.00 09/16/66 1300	

	Į,		:•	<b>3</b> ^	2.	28	40 rv	53
LITER	SOR		:	:	;	20	:	8 9
1S PER	2018		:	:	:	=	:	;
MILLIGRAMS PER LITER TOS	no.		00.	00.	00.	00.	00.	00.
ž	u.		;	;	;	1	;	;
Œ	NO3		;	;	;	0 · 0 · 1 · 0 · 1	:	0 • 5 • 01 1
MILLIGHAMS PER LITER MILLIEUDIVALENÍ PER LITER PFRCENI REACTANCE VALUE	C		3.7	8.1	.03	0.5	5.0	3.4 .10
PEK LI	S04		;	;	:	5.0 •10 14	:	1.6
MILLIGHAMS PER LITER MILLIEUDIVALENÍ PER I PERCENI WEACIANGE VAI	HC03	(22b)	4 r.	249.	5 <b>.</b>	32 .52 .75	53	5.43
	603	AMERICAN RIVER, MIDDLE FORK, NEAR AUBURN (22b)	0.0	0.0	0	0.0	0.0	0.0
MINEMAL CONSTITUENTS IN	×	NEAR /	;	1	ŀ	1.3	:	5.5 dh.
STITUE	۵ 2	FORK,	3.1.	4.7 .20	2.5	2.1. 1.1.	* · ·	3.4
al Cons	415	MIDDLE	:	;	1	0.7	;	3.4 .31 .45
MINER	CA	IVER, 1	1	1	1	10	;	111
7 - 7 - 1	F LD	ICAN R	110	ž	ņ	7.1	114	126
1 4 1 4	6.1		7.3	7.7	7.3	7.4	7.7	H.13
Į.	:	A 7 3100.00	\$ 95	7,7	57	62	73	- 89
3	7 A 7	A 7 3	10.7	12.4	11.2	9.8	8.5	9.3
ř.	=		6.26	7.82	9.7	6.89	6.29	
STATION NUMBER	S		473100.00 11/02/65 5000 0900	473100.00 01/05/65 5000 0920	473100.00 03/24/66 5100 1500	473100.00 65/12/66 5000 6755	473100•00 07/05/46 5000 0745	A73100.00 09/19/65 \$200 0830
STATI	TIME		11/0 09:	A73100 01/05/	473100 03/24/	A73100 05/12/ 0755	07.70 20 70	A731 0971 04

TABLE D 2

MINFHAL ANALYSIS OF SURFACE WATER

STATION NUMBER			9	ı.		4 I NE RAL	L CONS	MINERAL CONSTITUENTS IN	TS IN	MILLIE	MILLIGHAMS PER LITTH MILLIGUDIVALENI PEH LITER	EM LIT	H LITE	œ	MILL	IGRAM	MILLIGRAMS PER LITER	LITER	į
SAMPLER	I .	SAT	Σ	FLU	FLU AB	CA	5	<b>4</b> 2	×	CO3	PERCENT MEACTANCE VALUE	504 504	VALUE	€ 0.N	u	r	2018	SUM	1 2
		A 7 4	A 7 4150.00		CAN RI	VER, S	OUTH F	ORK, N.	EAR LO	AMERICAN RIVER, SOUTH FORK, NEAR LOTUS (22c)	3c)								
5 100	3.20	10.7	53 ;	7.H 7.3	66	:	1	3.7	;	0 • 0	2, 2, 2,	:	6.5	;	:	00.	:	1	70
2000	7.17	12.3	777	7.5	o,	;	;	2.7	1	0 • 0	25.	:	.04	:	:	00.	:	:	23 3
A74150.00 03/24/66 5000 1245	5.52 668	11.7	54	7.7	09	;	:	3.1	;	0 • 0	27	:	2.1	:	:	.01	;	:	23
A74150.00 N5/12/66 5000 0920	6.80 1850	10.6	55	6.9	31	3.4	0.03 0.03	1.0. 20.7	0.6 .02 7	0 • 0	13 78 78	1.0		0.1	;	000	9.5	31	0 0
A74150.00 07/05/66 5000 0830	4.91 349	9.8	. 09	7.3	30	ţ	1	1.3	:	0 • 0	25.	;	1.0	i	1	00.	•	;	2 2
5000		10.0	62	7.7	£.	3.4 •14		3.7 3.0 3.0 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	0.0 50.	0.0	.31 82	o • 0	.04	2•1 •03 8	:	00.	;	36	150

MINEHAL ANALYSIS OF SURFACE WATER

I O	181	170	241	0 0	193	2002	902	146	143	139	135	153
LITER TOS SUM	:	;	;	:	;	1	:	224	:	;	;	224 197
MS PER S102	;	:	;	:	ŀ	;	;	50	;	;	;	;
MILLIGRAMS PER H SIO2	.13	.21	62.	.08	Ξ.	<u>:</u>	.15	• 12	60.	• 10	60.	1.10
Σ	:	1	;	1	:	;	;	:	;	:	;	;
7 X Z	;	;	}	;	;	:	:	1.4	;	:	;	1.6
ITER PER LIT VALUE	30	50 1.41	86	16 2 4	£6.	4.0	39	20 .56 14	15.	11.31	12	13 13
PER L.	;	1	;	;	1	;	;	13.	:	;	:	7.5 .1.
MILLIGHAMS PEM LITEM MILLIGUOLVALENT PEM LITEM PEMCENT MEACTANCE VALUE UN MCON SOUM CL N	207	3.13	3.47	167	214	3.67	3.67	3.00	164	181	176	3.25
MILL MILL PFRC	0.6	0.0	16 53	3.0	8.0	9.0	8.0	0.0	0.0	0.0	0.0	0.0
<u>z</u>	:	;	;	;	;	;	;	5.5 60. 5	:	;	1	2.3 .06
MINEMAL COMPTITUENTS IN CA MG NA K	(80)	34 1.64	54 0.7.5	17	32	35	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 5	2	÷ .	15.	23
L CUM5	CAPAY	;	ł	i	;	:	1	20 44. 54	1	;	:	1.56
М1 NE RA Са	NEAR	;	;	;	1	;	1	26 1.30 33	;	:	1	30
EC LAB FLU	CREEK 452	505	714	343	264	531	531	363	341	316	318	347
FLS FLS	CACHE	8.3	8.2	8.3	8.1	8.1.8	8.2	₽.8 4.8	7.7	æ.8 .3	8.2 8.2	7.9 8.2
٦. م	1120.00	5 1 95	50	47	777	57	; 3	70	1.7	1 89	76	69
000 SAT	A 8 1.	10.4	10.5 94	11.7	11.9 98	10.3	10.0	9.6	9.6	8.8 98	7.9	8.4 94
	2.63	4.20	2.62	5.74	3.81	3.28	3.18	3.68	3.47	3,63	3.36	262
NUMHER LAH SAMPLER	9	2000	5000	5000	5000	5000	2000	2000	5000	5000	5000	5000
STATION NU DATE TIME SA	A81120.00	0815 08115 11/19/65	0930 A81120.00 12/08/65 1300	A81120.00 01/13/66 1340	A81120.00 02/14/66 0930	A81120.00 03/24/66 1015	A81120.00 04/07/66 0945	A81120.00 05/13/66 1100	A81120.00 06/03/66 1300	481120.00 07/15/66 1000	A81120.00 08/09/66 0830	A81120.00 09/20/66 0815

TABLE D 2

MINEMAL ANALYSIS OF SURFACE WATER

	ı Ü		127	127	110	6.2 8	118	116	134	120	119	124	132
	SUM		:	;	:	:	:	:	:	175 171	:	:	187
MILLIGRAMS PER	2018		:	:	:	:	:	:	;	5	:	;	72
LLIGRA	œ		• •	5 · 0	9.0	0.1	9 • 0	P •	6.0	1.0	7.0	1.0	•
Ξ	la.		;	1	1	ţ	:	ŀ	1	1	;	1	1
¥	<b>E</b> 0N		i	:	1	1	:	1	;	3.0. 8.0.	;	:	5.5 90. E
TER ER LIT	VALUE CL		5.5	5.1	.17	.12	5.7	9.6	8.2 .23	. 1. 2. 1. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5.4	5.3	.17
PER LI	SO4		:	1	:	:	ŀ	1	:	2 2	:	÷	  
MILLIGRAMS PEH LITER MILLIEUDIVALENT PEH LITER	PERCENT MEACTANCE VALUE 03 HC03 S04 CL		151	165	134	66 1.08	152	144	165 2.71	152 2.49 85	148	152	166 2.72 86
MILL	C03		6.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	.13	2.0	0 • 0
11s In	×	(42)	;	;	;	1	1	ł	:	1.9 20.5	1	:	<b>5.</b> 5. 5 6. 5 7 9. 5 9. 5 9. 5 9. 5 9. 5 9. 5 9. 5
TITUE	Z	LAKE	٠ ٢	1 4. E 4.	1 . 44.	7.2 .31	1. 4.	12 • 52	9 1 9	11 444 17	10	- *	.57
MINERAL CONSTITUENTS IN	MG	CACHE CREEK NEAR LOWER LAKE (42)	;	:	;	;	;	1	ł	1.07	;	1	1.40
A I NE	CA	K NEAR	:	1	1	;	1	1	1	1.30	1	1	55.
L C	FLD	E CREE	241	286	254	152	270	0 4 2	308	274	26R	274	662
1	+ LD	CACHI	a .5	8.2	7.7	7.9	8.2	ъ •	5.0	7.6	ά 4	æ 4.	r °
9	<u>.</u>	A 8 1350.00	1	1	;	1	1	1	1	1	:	;	;
1	5.A.T	A 8 1											
2	DATE CAR		A81350.00 10/05/65 1245	A81350.00 11/03/65 1310	12/09/65 1010	A81350.00 01/07/66 1230	481350.00 02/08/66 1210	A81350.00 03/04/66 1150	A81350.00 04/07/66 0814	A81350.00 05/04/66 0930	A81350.00 06/07/66 1300	A81350.00 N7/13/66 0940	A81350.U0 09/14/66 1130

TABLE D 2

i i 150 124 119 106 011 120 126 48 101 101 MILLIGRAMS PER LITER TOS 152 ŀ ì ÷ į i 154 ì i 174 177 5102 ï ŀ ì i i 25 ; ; 5 0.7 0 • 7 0.0 9.0 · 0 4.0 7.0 † · 0 r ; ŀ ; ; i E ()N 7. 20. MILLIEGUIVALENT PER LITER PEHCENT REACTANCE VALUF 3.8 . 16 . 10 î. .13 0.5 . 15 c ; £ . £. .13 MILLIGHAMS PEH LITER 204 ٠. د د ? ÷ -0 ì ļ HCO3 29.5 2.34 1.45 4.16 2,30 142 64.5 7.62 145 1.67 1.92 140 160 2.43 3.0 0.0 0.4 0.0 0.0 . 0 .03 1.0 0.0 o• ₹ 0.0 0.0 .07 MINERAL CONSTITUENTS IN 1.9 ۲.۶ 50. i ŀ 0.0 ¥ ÷ 0 . 9.1 \* \* 4. 7.0 I. B 3, \*・ケ 4. 77. (41) 77. \* 7 . €, **4** Z AT LAKEPORT 1.07 1.36 ; 1 ξ 1.20 -; CLEAR LAKE FC LAB FLO 741 253 C X ~ 764 27.8 765 197 7 37 235 7 3H 737 c r ۲۵٦ <u>-</u> ÷ 7.1 4.6 , K .. \$ \$ ۲. 8 1720.00 를 라 ļ ţ ١ ţ į ŀ TAS ć . H. 0 SAMPLEH STATION NUMMER 7 1 AB1/20.00 AH1720.00 AH1720.00 A81720.00 A81720.00 481720.00 A81720.00 05/04/66 A81720.00 07/21/65 00.05184 1410 00.05718A 481720.00 11/03/65 12/09/65 02/08/66 99/10/10 06/10/66 10/05/65 01/07/66 03/04/66 1250 0620 1145 0000 0770 1000 TIME

TABLE D 2

	I N		33	232	232	198	. 72	96	. 134	159	169	202	206	344 224
	SUM		1	1	;	1	;	i	1	1	236	:	1	344
MS PE	2018		;	:	;	:	;	;	1	:	17	1	;	21
MILLIGHAMS PER	r		9.E	4.00	<b>4</b>	3.6	6.9	0 د و	0 •	<u>*</u>	1.6	2.	3.2	4.1
Σ	ů.		;	;	;	;	1	}	;	;	;	1	1	;
α.	€ ON		1	:	1	;	;	;	ŀ	:	r · 0	:	:	2.1
TER E	VALUF		1.85	75	75	51	0	 	o a	٠, ډر.	.65 .15	3K 1.07	48 1.35	72
PEN LI	SU4		1	1	1	1	;	;	1	;	, , , t	:	ł	7
MILLIGHAMS PER LITER MILLIEUULVALENI PER LITER	PERCENT REACTANCE VALUE 03 HC03 SU4 CL	(62)	215	213	213	216 3.54	ا ب م م	120	159 2•61	185 3.03	191 3.13	210 3.44	212 3.4H	236
MILLI	PFHCE CO3		9 1 6	9.0	0.6	9.0	0 • 0	1.0	0.4.0	5.0	9.6	33	ж. 0 . 2.7	0.0
15 I	¥	LOWER	;	:	1	1	;	1	1	1	1.1 .03	:	;	0.7
MINERAL CONSTITUENTS IN	Z A	CREEK, NORTH FORK, NEAR LOWER LAKE	34	3.4	34	34 1•44	6	9.7 54.		<u> </u>	2 5.2		3, 1,34	3
L CONS	N D	H FORK	;	:	1	1	:	;	1	1	1.4.7	+	1	3.0
MINERA	CA	, NORT	1	1	1	1	1	;	;	1	25 1.40 32	1	1	6.4
	1 AB	CREEK	595	615	615	524	2	223	309	373	<b>4</b> 0 <b>4</b>	475	517	513
ĭ	LAH FLO	CACHE	x v	€ 10	so o			π	£ •	÷ 5	£.	6.7	υ	а <b>.</b> 1
	F.	2050.00	1	;	;	1	;	1	1	+	:	1	1	;
	SAT	A 8 20												
	I													
UMAER	LAH SAMPLER			5000										
STATION NUMBER	DATE TIME S		A82050.00 10/05/65 0945	A82050.00 11/03/65	A82050.00 11/03/65 0900	A82050.00 12/09/65 1240	A82050.00 01/07/65 1310	A82050.00 02/04/66 1100	A82050.00 03/04/65 1045	A82050+00 04/07/66 1000	A82050.UN 05/04/66 1045	A82050.00 06/07/66 1400	A82050.00 n7/13/66 0755	A82050.00

	I O		142	<b>*</b> 9	148	148 6	148	145	3 3	* *	3 8	44 5	146	146
LITER	SUM		;	;	:	:	+	;	;	;	155	;	;	170
MS PER	2018		;	;	:	;	;	;	;	;	13	;	;	13
MILLIGRAMS PER	20		0.1	0.1	• 10	0.1	0.2	0 • 1	2.0	0.1	· 0	0.1	0	~ 0
Σ	le.		;	1	;	1	1	1	1	ł	ì	;	:	;
H.	EON		:	1	1	;	:	ł	;	:	0.3	:	ŀ	0.4 .01
TER ER LIT	7 4 L OF		.13	.12	4.0	÷ ~ .	7.6 .21	. 18 18	5.0	.11	.13	.13	.13	11.
PER LI	SOF		:	:	;	1	;	;	:	;	1.7 3.5 1.0	1	i	1/ 35 11
MILLIGHAMS PER LITER MILLIEUUIVALENI PEH LITER	HC03		158	161	156	166	162	164	165	161	170 2.79 84	161	164	170 2.79 86
MILLI	CO3		5.0	4.0 .13	4 • 0 • 1 3	.13	4.0 .13	.13	4.0 .13	5.0	2.0 5.0.2	6.0	.13	0.0
15 12	×		1	1	1	;	1	1	1	1	1.3 .03	:	;	1.0. 4.0. 1.
MINEHAL CONSTITUENTS IN	<b>4</b>	CREEK NEAR WINTERS (81)	.33	* * * * * * * * * * * * * * * * * * *	9. • • 4. □	2. • • • • 2. □	11.	\$ 4 . 4	3.4	.37	.36	* .	3	8.7 3.3 1.1
ר כממא	2	WINTER	1	:	1	1	1	1	1	1	1.84 58	•	;	2°5 2°0°5 8°2
MINEHA	CA	NEAR	1	}	;	1	;	1	1	;	1.000	;	1	- i ;
ن ب	F L D	CREEK	293	500	308	34.8	325	310	305	α σ λ	301	7.67	966	108
ī	FL:)	PUTAH	8.5	Ť T	æ.	x •	TO *	τ.	¢	r	æ •	* *	χ •	C.
3	<u>.</u>	A 9 1250.00	1	;	1	1	ţ	1	1	1	1	;	1	1
Ş	SAT	A 9 13												
:														
N NUMBER	TIME SAMPLES		A91250.00 10/05/55 1415	A91250.00 11/04/55 1110	491250.00 12/05/55 5000 1500	A91250.00 12/09/65 1600	A91250.00 01/14/66 0945	A91250.00 02/09/66 1000	491250.00 03/03/66 1430	A91250.00 04/14/66 1130	491250.00 05/20/66 0745	A91250.00 06/17/66 0830	A91250.00 07/15/66 0805	A91250.00 09/06/66 1145

TABLE D 2

Ŧ	NCI		50 00	00 O	0 0
MILLIGRAMS PER LITER TOS	SUM		;	1	50 70
SPER	102		;	1	15
LIGRAM	8		00.	00.	.00 15
МІГ	u.		;	;	;
œ	80N		:	;	5.0
MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PRILLIER PER LITER PRINCE VALUE	CO3 HCO3 SO4 CL NO3		.12	.08	0.7 .02 .4
MILLIGRAMS PEM LITER MILLIGUDIVALENI PER L DEDOCENT DESCLAMOF VAL	SU4		:	ŀ	29 1.0 .48 .02 92 .
SRAMS :	HC03		40. 40.	59.	
M1661	C03		0 • 0	0 • 0	0.0
S I		94a)	.23 0.	:	.02
TITUEN	a A	NELL (	5,3	.21	1.1 2.4 .14 .12 .25 .22
CONS	MG	McCON	;	:	1.1
MINERAL	CA MG NA K	VER AT	1	;	5.4 .2.1 4.9
EC	LAB FLD	NES RI	129	116	r. S
ĭ	FLD	COSUM	7.6 129 46 7.5	н.1 7.3	7.6
	1 F 1 P 1 P	B O 1125.00 COSUMNES RIVER AT MCCONNEIL $(9^{4}a)$	94	55	71
	DO SAT	B 0 1.	11.6	10.9	9.0
			34.87 1880	31.71 423	31.75
STATION NUMMER	DATE LAH TIME SAMPLEH		R01125.00 01/06/66 5000	B01125.00 03/08/66 5000	H01125.00 05/04/66 5000 1445

STATION NUM DATE L TIME SAM	NUMMER LAM SAMPLEP		0.0 SAT	۳. ع ت	P P P P P P P P P P P P P P P P P P P	FC LAH FLD	MINERAL	L CUNS	MINERAL CUNSTITUENTS IN CA MG NA K		MILLIC MILLIF PFRCE	MILLIGHAMS PEH LITER MILLIEGUIVALENI PEH LITI PERCENT HEACTANCE VALUE 03 HC03 SU4 CL	PEH LIT		N ON	אורו	MILLIGRAMS PER LITER TDS H SIOZ SUM	MS PER S102		īŠ
			B 0 2	B 0 2520.00	CALAV	TERAS R	IVER N	EAR ST	CALAVERAS RIVER NEAR STOCKTON (16B)	(16B)										
H02570.00 12/06/65 5 1000	5000		11.6	97	н. 2 8.2	178	;	1	5.5.	;	0.0	1.26		.12	;	1	00.	;	:	16
H02520.00 01/06/66 5 1300	2000		10.8 95	20	7.5	502	;	;	7.1	1	0.0	7×7 1•+3	;	7.2	;	1	00.	;	:	0 o
H02520.00 02/01/66 5 1245	5000	06.4	11.0	50	7.1	141	1	;	5.5.	;	0 • 0	7 7	;	0 4	;	;	· 0 5	;	:	10
H02570.00 N3/01/66 5	5000		12.3	57	10 80 4 8.	212	1	;	7.6	ł	1.0	46 1.57	1	2.7	;	1	00.	;	;	00 00 00
H02520.00 04/13/66 5 0915	5000		8.2	63	8.1	561	1	;		;	1.0	92 1.51	;	3.6	i	;	• 01	;	;	æ ~
R02520.00 n5/12/66 t	2000	3.60	9.7	73	7.6 8.2	271	5 23	311	• • • • • • • • • • • • • • • • • • •	2 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 ·	0.0	24.5	12.5	5 4 T	0.5 .01	1	000•	10	113	76 3
H02520.00 06/01/66 1415	5000		8.9	71	8.1	140	1	;	3.3	1	0.0	92 1.51	;	.15	;	;	00.	;	:	3 3
H02520.00 07/12/66 0830	2000		9.1	70	 8.1	170	1	1	1.5.	;	0.0	2 4 4 6 4 6 9	1	4.4	ŀ	1	000.	;	;	78
H02520.00 09/01/66 1415	5000		11,3		8.5	- 3 4	- 9. r.	2. 4.	5 . 4 4 . 4 1 4	20. 20.	0.0	1, 40	= ===	e;	1.1	1	.10	;	96	ot 0 •0

I I		9 2	12 9	ō o	76	89 15	100	90 31 Qv	90	;	12	0 <b>v</b>	£ 0
LITER TOS SUM		;	:	;	:	;	:	:	116	:	;	:	94
MS PER S102		;	;	;	;	;	;	:	0.0	:	:	;	:
MILLIGRAMS PER H SIO2		00.	00.	00.	00.	.02	.01	00.	00.	000	• 01	00.	•10
ΑIL		1	1	;	;	1	1	;	1	;	;	;	:
π. 80 s		1	:	;	:	;	;	;	1.6 5.3	:	}	;	1.3 .02 1
MILLIGHAMS PEH LITER MILLIEUUIVALENI PEH LITER PERCENI REAGIANCE VALUE U3 HC03 SO4 CL N		5.7	90.	.12	3.4	5.5 81.	.17	8 F 0 X	.12	;	5°0°	£	3.4
PEH LI LENT PE STANCE SU4		;	;	;	1	1	;	;	12.	:	:	;	4.4 .20 11
MILLIGHAMS PEH LITER MILLIEGUIVALENI PEH LITM PERCENI MESCIANCE VALUE 03 HCO3 CL		1.28	90	3. 4. 1 4. 1	85 1.39	1.84	107	1. 4. 4.	1 3,4 0,4 0,4	1	1.54	91	1.44 84.4
MILLI MILLI PERCE		0.0	0.0	0.0	0.0	0	1.0	2.0	0 • 0	1	0.0	0.0	0.0
		1	1	;	;	:	ł	:	1.5 دا٠٠	;	1	;	۱۰۵ دره
I.TUENI	Y LIND	5.0	4.6	5.5	*	333	7.1 .31	5.1 .2.	: 22	;	.2.	4.4 05.	* 2.
CONS	r Jenn	;	1	1	1	1	;	1	7.3 .60 32	;	1	1	7.4 .61 32
MINERAL CONSTITUENTS IN	RIVER AT JENNY LIND (16a)	1	;	;	1	:	;	1	1.00	1	1	1	15.05 20.1
F.C.		154	157	141	175	212	226	<u> </u>	179	;	6/1	1 4	4 H L
1 4 7 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	CALAVERAS	7. r.	7.7	8.2	8.2 7.9	8.8 7.7	7.9	*	8.0 7.7	7.7	ж. з 8.1	7.9	7.7
Į.	0 2590.00	- 09	57	51	64	¦ 64	51	59	53	53	57	1 88	55
00	B 0 2	9.2	10.7	11.1	11.9	11.1 98	10.9 98	12.3 123	11.0	10.9	11.3	10.3	11.2
r.	,	1.39	1.32	1.50	4.46	1.85	1.60	1.90	2.35	2.22	2.51	2.53	136
20 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	T T T T T T T T T T T T T T T T T T T	5000	5000	2000	2000	5002	51100	5000	0005	5006	5000	000,5	5002
NO	I ME SA	H02590.00 10/13/65 0815	2,00	H02590.00 12/06/65 1115	H02590.00 01/04/65 1120	H02590•00 92/01/66 1030	HQ2590.00 03/01/66 1000	H02590.00 04/11/60 1230	H02590.00 N5/04/66 0830	н02590.00 г6/03/66 0915	802590.UN 07/05/66 1300	н02590.00 08/09/66 1200	но2590.00 09/01/65 1015

TABLE D 2

MINEHAL AMALYSIS OF SURFACE WATER

	1 Z		36 0	56	54	25	25 0	3.5 0
LITER	SUM		1	:	;	r 9	;	58 31
1S PER	5018		:	:	:	15	:	;
MILLIGRAMS PER LITER	70		00.	00.	.01	00.	00.	00.
Σ	u.		;	;	1	1	;	1
ă.	NO3		;	:	:	0.3	;	0.0
MILLIGHAMS PER LITER MILLIGUIVALENI PER LITER DESCENT ELECTIONE	CL		1.3	3.5	۲۰۰	1.1 .03 5	1.0	8 · 0 50 · 4
PEA LI	S04		;	;	;	3.0 4.0 1.0	;	0 + 3 5 0 +
MILLIGHAMS PER LITER MILLIEUDIVALENT PER I	HC03		47.		r 2.	W 4 K	31	32 •52 •91
MICLI	10 L L L L L L L L L L L L L L L L L L L		0 • 0	0.0	0.0	0 • 0	0 • 0	0 • 0
MIMERAL CUNSTITUENTS IN	۷	COSUMNES RIVER AT MICHIGAN BAR (94)	+	;	;	5 N M	1	1.0.
TITUE?	S	IGAN B	÷ ÷	5 · · ·	1.2.	2.5		£ + ×
IL CUN:	ž	P MICH.	;	;	1	.15	;	1.3
MINERA	C	EVER AT	;	1	ţ.	6.6	1	***
r -	FLD	ANES R.	0.6	1 45	r z	2,	7 U	<u>-</u>
J J	57		7.5	7.7	7.7	7.3	7.7	7.9
÷ Ž		в 1 1150.00	; 09		20		7.6	7.5
ć	5 A 1	B 1 1:	10,5	12.5	11.8	9.9	8.4	9.8
6,44	?		2.38	4.65	395	3,48	2.69	17
NUMAFE	SAMPLAZ		9000	5000	0005	9669	: 01.2	9006
20	IJME SA		11702765 11702765 1145	#11150.00 #1704766	H11150.Un F3/01/66	#11150.00 (5/12/65 '	H11150.00 07/05/66 '	F11150.00 F9/16/65 1

TABLE D 2

MINEMAL ANALYSIS OF SUPFACE WATER

STATION NUMMER				ď	n C	MINEHA	r cons	MINEMAL CONSTITUENTS IN	IS In	MILLIG	MILLIGHAMS PEH LITER MILLIEGUIVALENT PEH LITER	ENT PE	E E	α	MILI	LIGHAM	MILLIGHAMS PER LITER	LITER	į
DATE LAN		SAT	Σ Σ	FLO	FLD	CA	βG	4	×	CO3 F	PEMCENT MEACTANCE VALUE 03 MG03 SO4 CL	S-D+		£0N	u	r	2015	SUM	r Cr
		в 2 11	1170.00	MOKEL	MOKELUMNE RIVER	IVER B	BELOW C	CAMANCHE DAM		(23a)									
H21170.00 11/09/65 5000 0900	1960	10.1	63	7.6	2,	1	1	2.3	;	0 • 0	33	:	0.6 0.02	1	;	00.	:	:	90
H21170.00 01/06/66 5000 1030	4.79	12.3 107	4 8	7.5	2.0	1	:	3.7	:	0.0	.36	:	1.5	:	;	000	:	:	19
H21170.00 03/01/66 5000 0900	 1060	11.9	67	7.5	3	;	:	2.5	;	0.0	.31	:	1.6	:	:	00.	;	:	17
H21170.00 05/04/66 5000 0745	4.91 555	11.5	53	5.2	51	5.2.4 5.2.2.5	1.1	2.6 •11 22	⊕ • ₽ 0 •	0.0	23 34 74	3.0° 20° 1.1	1.9 .05 11	0 • 0 2 0 2	:	00.	9.5	35	18
H21170.00 07/05/66 5009 1215	570	11.2	63	7.2 6.9	n, ee	ţ	;	2.1	:	0.0	R7 4.	;	1.2	1	:	00.	:	;	2100
H21170.00 09/01/66 5000 0930	363	10.2 106	; ©	7.7	95	6.04 5.04	1.4 112 12	3.15 2.15 4.5	6.0 50.	0.0	25 41 79	د.1 20.4 م	2.4 .07 13	0 • 3	:	• 10	:	2 8 8	0 0

MINEHAL ANALYSIS OF SIJNFACE WATEH

i ž 101 67 S 70 18 9 σ 85 σ 83 4 œ 82 30 9 7 85 2 MILLIGHAMS PER LITER TDS SUM ¦ 100 į ; ļ ; 5102 ; i 10 1 ; 000 0. 7 00 .01 000 000 00. 00. 000 000. ; ŧ 1 S 0.3 3.5 ~= . ; MILLIGHAMS PER LITER MILLIFOUIVALENI PER LITER PERCENT REACTANCE VALUE 9 χ· ο . Β ٠. æ. š. 3 6 ₹. ۲. Ċ. 01. 10 Ξ = ٠,٠ .06 \* \* † . J 204 ; 17. 7 ; 64.1 HCO3H 1.4.3 5 1.25 1.36 1.38 1.38 1.46 ጥ 1 **t** Ţ ŗ \* \* \* 7 4 0 **₹** 1.53 76 1.51 7 NEW HOGAN DAM (16c) د ری 0.0 0.1 0.0 0.0 0.0 5.0 1 0.0 0.0 0.0 0.0 0 MINERAL CONSTITUENTS IN ŀ ŀ Ŧ. ; 50. ĸ 5.0 ~?• 7. 3. ¥. ~. 5. ۲.۶ 5.5 ٥. . · 22 \*∵• ~ ~~ ·. ~~ \*~. \*2. ٩ BELOW ٤٢. 5,3 ž CALAVERAS RIVER ì 1 ₹ 1.05 5 CA F C LAH <del>ا</del> آ 34.0 0 178 143 152 157 175 7. 70 175 7 7.4 ٦٨ = 1 ۷. ۵ ۵.۷ ۲. ī , t X s. 7.4 ŗ ٧. 2 5300.00 7 3 5 1 05 50 ŀ 52 4.8 52 52 ļ 54 54 --13.0 11.6 13.3 12.0 111 13.2 13.7 10.8 11.6 11.6 SAT Ē 0.90 . E. 1,32 0,90 0.90 06.0 0.90 1,51 1,41 1.48 55 2 SAMPLEM 5000 5000 0005 5000 5000 05/03/60 5000 5000 STATION NUMBER 5000 5000 5000 5000 7 12/02/65 06/00/66 07/11/66 0800 H25300.00 08/08/66 R25300.00 H25300.00 11/01/65 H25300.00 H25300.00 H25300.00 02/01/66 03/01/66 H25300.00 99/50/50 R25300.00 H25300.00 H25300.00 H25300.00 01/03/66 10/04/45 0410 0860 1010 0010 0815 0850 0830 0935 DATE TIME

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09/12/66 5000 0730

H25300.00

TABLE D 2

MINFHAL ANALYSIS OF SURFACE WATER

i v		112	911	98	11	52	9 2	99 8	9 50	109	126
MILLIGRAMS PER LITER TOS B SIOZ SUM		:	:	:	:	:	:	;	138	:	:
MS PER S102		;	;	;	:	1	;	;	16	;	;
LIGRAM B S		• 01	•01	00.	00.	00.	0.0	00.	00.	00.	00.
۳ ا		;	;	;	:	;	;	;	;	;	;
α. 80N		;	;	;	;	;	!	;	6.9	;	:
ER K LITE VALUE CL		.26	2.5	6.5 18	  . 4	3.0 9.08	3.9	.15	4.6 133	18 18	. 25
LENT PE		:	ì	;	ì	;	;	;	14 424 13	;	:
MILLIGRAMS PER LITER MILLEGUIVALENT PER LITER PERCENT REACIANCE VALUE 03 HC03 SO4 CL N	(16d)	120	133 2.18	93 1.53	79	98.	102	105	111	11.44	142
MILLI PERCE CO3	NEW HOGAN RESERVOIR (16d)	3.0	0 • 0	5.0	0 • 0	0.0	0 • 0	G • 0	0 • 0	4.0 •13	0.0
.S. x	AN RES	;	1	1	;	;	:	;	1.8 •05 2	;	;
rituen NA	EW HOG	2. 4. 7. <u>-</u>	 	6. 3 3 d	5.7	4.5.	7.7	5.4	7:1 :31	8.4	1:0
CUNSI		1	1	;	1	;	1	;	2. 2.	;	;
AINERAL CUNSTITUENTS IN CA 46 NA N	RIVER ABOVE	;	;	;	1	;	1	;	15 to 1	1	;
+ C + A B F L O		242	642	224	1 + 0	2	602	405	720	2 4 4 8	243
7 1 F 4 4 1 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CALAVERAS	**	r.	n •	α· υ	7.7	· i	۸. •	6.6	r ·	7.
0. 2	5898.50	26	54	777	07	42	52	62	£ ;	62	; 99
001 5.8 T	B 2 58	10.4	11.9	13.9 105	14.7	14.8 120		12.6		8.0	10.4
Н .											
7		5000	0005	5000	9)110	5000	5000	5:100	5.100	5011.5	5003
STATION NUM 4FP DATE LAN TIME SAMPLE		H25898.50 10/04/65 0745	H25898.50 11/01/65 0845	H25494.50 H2707751	H25498.50 01/03/65 0935	H25898.50 02/07/66 0900	H25898.50 03/07/65 0840	H25498.59 04/04/66 0910	H25H98.50 05/03/66 0745	425898.54 06/06/66 0800	H25898.30 N7/11/65 N738

MINFHAL ANALYSIS OF SUMFACE WATER

		Į,		0.0 0	<b>6</b>	0	0 0	48	1 0	51	57	76 0	99 5	<b>*</b> °	0 0
		SUM		;	:	;	;	:	;	;	104	;	;	:	164
!	S PER	2015		;	:	;	:	;	:	:	16	;	:	:	:
	MILLIGRAMS PER	30		• 00	• 01	00.	.01	• 05	•01	.01	00.	.02	.01	00.	•10
	Σ	LL.		:	;	:	;	:	:	:	:	:	;	;	;
1	Υ W	NO3		;	;	;	1	;	:	:	1.2 .02	1	;	:	2.1 .03
ITER	MILLIEGOIVALENI PER LITER Percent reactance value	J.		6.0	.13	÷ ;	.24	12	<u>.</u> 3.	1.6	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	12	16	 	13 .37 15
PER	CIANC	504		1	;	1	:	1	1	1	41 14.	:	1	;	دا اخ
MILLIGRAMS PEH LITER		HC03		76	70	1.15	75	91	98	61	1.12 69	1.54	1.23	1.39	108
ν I Γ	PFRC	£00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
	2	¥	(16)	:	;	1	1	1	+	;	9.0	;	1	1	3.5
	MINEMAL CONSTITUENTS	<u>م</u> 2	AT RIO VISTA (16)		£ .	2 3	1 4 1 4	17	•61	9 ÷	1 4 V	<u>.</u> .	<u>.</u> .	- ţ	2 5. 8. 8.
	ار د درده	5	AT RIC	;	1	1	;	1	;	;	4 • 0 ° 0 ° 4 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 °	;	1	;	1 2 4
	4 1 2 1 E	CA	RIVER	1	+	1	1	;	:	;	13 45 45 45 45	1	:	:	0 1 4
	L A	FLO	SACRAMENTO	141	7 7 1	1,5	67.1	ر <del>د</del> ر	567	1 32	154	524	26	1 43	545
á	T 2 1 1	=======================================	SACR	7.3	7.3	7.5	8.7 7.5	К. 2 7.5	7.5	8.1	7.3	7.9	7.7	7.7	7.4
	Ţ.		в 9 1210.00	99	62	53	45	1 %	52	62	99	1 89	69	72	69
	60	547	в 9 1	8.3	8.5	10.2 94	11.1	10.7	10.6 96	9.6 96	8.0	7.7	9.6	8.0 91	8.2 90
	5	7		4.22	5.58	4.45	7.80	2,75	4.30	4.25	4.30	2.27	5.40	5.35	
9	MAF I	SAMPLER		5100	5 0 0 0	5 000	5005	2000	00:5	5.00	5210	5 100	9005	5300	ر 0 م
	DATE LAN	TIME SA		491210.00 10/05/65 1115	H91210.00 11/01/65 1100	н91210.00 11/29/65 1245	H91210.00 01/03/65 1200	491210.00 02/09/66 1315	891210.00 03/08/64 1400	H91210.00 04/06/66 1330	491210.00 05/03/56 1215	#91210.00 06/04/66 1245	м91210•30 07/12/66 1115	#91210.00 08/12/66 1045	491210.00 09712766 1200

TABLE D 2

ī		0	36 0	2 2	9	123	139	95	3 82	80 4 80 4	82 3	9.2
LITER TDS SUM		;	:	;	:	;	;	;	160	;	;	147
MILLIGHAMS PER B SIO2		ſ	;	;	;	:	:	;	15	ŀ	;	16
LLIGRA		0.0	0 • 0	0.2	0 • 3	0 • 6	5.0	0 • 0	0.1	0.1	0 • 0	0 • 1
Σ Σ		1	1	1	;	:	;	:	1	;	;	1
я х о ы		:	1	•	;	:	:	:	1.5 .02 1	1	+	1.6 .03
TER EM LIT VALUE CL		.27	1.14	.23	12	82.	21 •59	23	14 .39 16	14.	12	.31
PER LI LENT P CTANCE SU4		1	;	:	;	:	1	:	1 4 1 1 8	:	;	21. 14. 15.
MILLIGRAMS PER LITER MILLIEGUIVALENÍ PER LITER PERCENI REACIANCE VALUE 03. MC03. SU4. CL. Nº		97	72 1.18	1.20	103	139 2,28	158 2.59	108	97 1.59 65	101	1.59	104 1.71 72
MILLI MILLI PERCE CO3		1.0	0 • 0	0.0	0 • 0	2.0	2.0	0.0	0.0	1.0	0.0	0.0
۲ ×	LINDSEY SLOUGH NEAR RIO VISTA (110)	:	1	:	:	:	:	;	0.9 •02 1	;	:	1.6 .04
MINERAL CONSTITUENTS IN CA MG NA K	VIST/	15.	9. 4. 0.	11.		37	27	13. 73.	14 • 70 30	17	17	17 • 74 30
L CONS	SAR RIC	1	;	1	1	;	1	1	11. 3.00 3.00	;	:	37
MINERA CA	OUGH NE	;	:	1	1	:	1	1	15 27. 32	1	1	15 75 31
F.C FLAB	SEY SLO	216	159	176	259	411	377	262	238	253	237	235
P LAH FL0	LINDS	68 .3	8.1	8.0	7.9	æ •		6.2	7.9		8	7.9
TEMP	в 9 1260.00	1	1	1	1	1	;	;	1	1	1	1
UO SAT	в 9 1											
ON NUMMER LAN SAMPLER		R91260.00 10/06/65 1230	R91260.00 11/04/65 1430	991260.00 12/10/65 0830	H91260.00 01/14/66 1230	R91260.00 02/09/66 1530	H91260.00 03/03/66 1530	H91260.00 04/14/66 0745	891260.00 05/20/66 1050	H91260.00 06/17/66 1100	R91260.00 07/15/66 1000	R91260.00 09/06/66· 1510
STATI DATE TIME		10/	11/1	1891 127	н91 01/	891 02/	н91 03/	H91	H91 05/	891 06/	н91 07/	н91 097

MINEHAL ANALYSIS OF SUPFACE WATER

3	I S		57 0	0 0 0	51	5.0	% S ~	75	1 .	00 O	74	61	0 0	88 0
	SUM		;	;	;	;	;	;	;	4.6 8.3	:	;	;	151
S PER	2018		1	;	:	;	:	:	;	16	1	;	1	7
MILLIGRAMS PER	x.		.01	00.	00.	00.	.01	• 01	0.0	00.	000.	• 0.0	0.6.	• 10
٦1μ	u.		;	1	1	1	1	1	;	1	;	ł	1	1
a a	E0N		;	}	:	1	:	;	;	0.0	;	;	1	1.5 2.2 1
MILLIGHAMS PEH LITER MILLIEUULVALENI PEH LITER DERGENT DENGTANGE DALUE	C.L.		1.6	6.7 60.	; -: p 4	. 18 18	0 · C · 4 · 1 ·	4.5.	8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	- ~ ~ ~	11		7.6 .21	13
PER LI	504		1	;	;	;	1	}	1	8.0 11/ 13	1	1	;	1 2 1
MILLIGHAMS PER LITER MILLIEUUIVALENT PER LIT DEPOENT DEKOTOMOE NAIDE	HC03	<u>~</u>	72	1.12	63 1,03	1.16	68 1.12	40 1.48	20 2 20 20	5.5	3, 10, 10	1.20	1.24	1.1.7
MILLI	£00	VE (98	0 • 0	0.0	0 • 0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0	0.0
ZI SI	£	UT GRC	1	;	ŀ	;	;	1	;	1.1	1	1	;	. 0
IITUEN	A	R WALN	4.4	7.5 .34	• • •	1 X 1 · 0 • 0	1.7	1.6.	1.6	7.5	- :	T **	- 4 - 1	- 5.
CONS	м6	EL NEA	;	:	1	1	;	1	1	4	ţ	;	1	51 24. 37.
MINERAL CONSTITUENTS IN	CA	CROSS CHANNEL NEAR WALNUT GROVE (98)	;	1	1	1	1	1	1	- 4 4 - 5 5	1	;	;	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ر سا د ن ا	FLD		148	134	133	o -	153	¥ 0 ~	151	129	519	ر 9	¢	4 4 4
j _	FLD	DELTA	7.3	7.3	7.5	7.5	7.5	7.5	7.3	7.4	7.7	7.3	7.5	7.5
3		в 9 1700.00	65	, 09	52	45	1 %	1 %	9	19	71	69	72	70
9	SAT	B 9 1	8.2	9.3 93	10.6	11.4	11.0	10.9	,9.5	8.3	7.7	8.2	7.4	7.5
1	•		3.92	4.78	3,03	4.70	3,58	4.35	2.85	4.30	1.90	87.7	99.4	
STATION NUMMER	S		H91700.00 10/06/45 5000 0830	H91700.00 11/01/65 5000 1000	H91700.00 11/29/65 5º00 1345	н91700.00 01/03/65 5º00 1330	491700.00 02/09/60 5000 1415	H91700.00 03/08/66 5000 1445	H91700.00 04/06/66 5000 1430	M917n0.00 05/03/66 5000 1315	H91700.00 06/08/68 5900 1330	491700.00 07/12/56 5000 1215	H91700.00 08/12/56 5000 1215	Н91700•00 N9/12/66 5000 1415
STATION	TIME		10/06/t	Н91700- 11/01/е 1000	н91700. 11/29/6 1345	H91700 01/03/0 1330	N2/09/	H91700 03/08/1	и91700 04/06/1 1430	м91700 05/03/ 1315	06/08/ 06/08/ 1330	н91700 07/12/-	491700 08/12/	H91700

MINEHAL ANALYSIS OF SURFACE WATER

2	Į Į		90	52	<b>51</b> 0	3.0 0	52 3	65	9 0	52	0	0 0	0 0	60
	SUM		;	:	:	;	:	:	1 6	36	131	:	:	157
IS PER	2018		:	1	;	;	:	:	15	16	80 1	:	:	;
MILLIGRAMS PER	£		00.	00.	00.	00.	.01	00.	00.	00.	000	00.	00.	00.
Iω	u.		1	:	;	1	;	:	0.1	0.1	2.0	1	•	;
ά.	NO.3		1	1	;	;	ŀ	:	0.9 .01	1.3	1.9 0.3 1	;	;	2.3 .04
TER EX LIT	CL		5.9	.11	.12	4.3	7 7 7 7	,17	90.	5.7 .16 11	10 28 13	.20	25.	15 42 16
PER LI	S04		:	;	;	;	:	1	• 1 × 1 × 1 × 1	÷ ; ;	.31 14	ł	;	1 5.
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PERCENT REACTAMOF VALIE	нсоз		13	1,12	1.02	1,16	04.50	ь 1.31	50 81	1.03	1.45 68	76 1.25	н1 1.33	118
MILL			0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.5 0.0 50.0	0.0	0.0	0.0
IS IN	¥	(15p)	:	1	:	;	;	1	× 0.5	1.0	1.0	:	:	1.3 .03
MINERAL CONSTITUENTS IN	۲ ۲	AT FREEPORT	1.	7.5	7 • 11 • 3 0	9.0	7.1	. 4 .	1 2 2	9.4 .41 .5.7	Ţ <b>ţ</b> ₩	2 . 4 . 4	- 3	- x.
L CUNS	46	AT FRI	!	i	1	;	;	:	3.6 .30 30	4.4. 3.00	2.7	;	1	2.5.9
MINERA	ĊA	RIVER	1	1	1	1	;	1	= i .	4. 1.4. 1.4.	, x, c,	1	;	14 900 33
U .	FLD -	SACRAMENTO	152	1 36	1 43	155	136	175	103	143	802	151	145	142
ž =	FLE	SACE	7.3	8.1 7.3	7.9	7.5	7.5	7.4	7.1	7.3	7.7	7.7	7.5	7.7
7 2 3	1	9 1849.90	-1	59	52	45	1 8	53	62	1 89	; 69	<b>:</b> 69	12	70
9	SAT	в 9 л	9.2	96	11.0	11.7	11.1	10.9	9.8	8.8 96	7.9 87	98	8.4 95	8.4 94
Ţ.	. ?		3.27	2.55	90.9	6.95	8.20	3,65	6.10	2.60	2.21	2.33	3,13	
a and a second	SAMPLEH		0004	5000	9605	9.000	0005	5000	511110	6000	5.10.9	5000	5003	5005
STATION NUMBER			10/04/45 10/04/45 0730	11/01/65 11/01/65 1900	891849.40 11/29/65 1500	H91849.90 01/03/66 1425	R91849.91 02/09/66 1515	H91849.90 N3/UH/65 1530	H91849.40 C4/O6/66 1530	691849.90 05/03/65 1430	H91849.90 06/08/65 1445	491849.90 07/12/65 1345	H91849.90 0H/12/65 1315	H91849.97 P9712760 1515

2	I O		00 0	92	12	72 11	4 8	96
	SOM		;	:	;	138	;	177
PER	2018		;	;	;	16	;	;
MILLIGRAMS PER LITER	· S · Θ		000	00.	00 •	00.	.01	.10
MILL	LL.		;	;	:	;	;	1
	8 ON		;	:	;	0.5	;	1.1 .02
LITER			.12	30	. 56	20 0.	17	20 1.
LITEH PER CF V	2			m 30		•	-	·
PER PER PER PER PER PER PER PER PER PER	3.0¢		1	;	;	21 12.	}	16 .33
MILLIGHAMS PER LITER MILLIEGUIVALENT PER LITER PFRCENT REACTANCE VALUE	HC03		1.02	°. °. °. °. °. °. °. °. °. °. °. °. °. °	1.07	75 1.23 58	81	122 2.00 69
	503	(66)	0 • 0	0 • 0	0.0	0 • 0	0.0	0 • 0
15 12	∠		;	:	1	1.3 .03	1	.04
TITUEN	Z A	TERMI	7 7	÷ ~	55.	* 1	÷ ;	24 1.04 35
. C0NS	Mis	UGH AT	1	;	;	7.8 .04 3.1	;	11 990 30
MINEMAL CONSTITUENTS IN	CA	LITTLE POTATO SLOUGH AT TERMINOUS	}	:	;	r or x	;	1.00
7 L	FLD	E POTA	132	235	161	152	502	262
7 7 1 4 1	074	LITTL	8.0 7.3	7.5	8.1	7.3	7.5	7.3
Ε 3		в 9 4120.10	-19	45	51	19	72	74
0.0	SAT	B 9 41	9.9	10.0	10.6 95	8.1	7.4	7.5
ı. E	2							
	~		6006	5000	5000	5000	5.100	5000
STATION NUMMER DATE LAM			H94120.10 11/09/65 1530	694120.1° 01/03/65 1255	H94120.10 03/01/55 1445	H94120.1n 05/12/66 1220	H94120.10 07/04/65 1230	H94120.10 09/12/65 1330

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TABLE D 2 MINFARL ANALYSIS OF SUBFACE MATER

I Z	4	0 18	17	99 0	22	2100
LITER TOS SUM	;	;	:	39	;	55 31
MS PER S102	;	;	;	9•3	;	;
MILLIGRAMS PER LITER TOS H SIOZ SUM	00.	00.	00.	0.0 •	00.	00.
۳. د	1	1	1	1	1	;
an Son	1	;	1	9:0	1	0 · 0 10 · 0
MILLIGHAMS PER LITER MILLIGUALVALEMI PER LITFR PERCENT REACIONCE VALUE  03 HC03 SO+ CL N	• •	.03	9. 0	2. 4 x	1 1 0	000
PER L	1	;	1	4 . 5 0 c	;	2.0 00 x
E MALLIGHAMS PER LITER MILLIFUUIVALENI PER I PERCENI REACTAWCE √AI 03 HC03 SO↓ CL	61	.31 22 .36	20 33	.36 .35	18	0, 4 t c
, ,	0.0	0.0	0.0	0.0	0.0	0 • 0
<u>V</u> ₹	(23)	:	1	1.1	1	50·
TITUEN	BRIDGE	2.1	۲۰:	3.5 4.5	2.1	2.5
MINERAL CONSTITUENTS IN CA MG NA R	AT WOOI	;	;	1.3	1	1 • 1 2 • 0 • 1 3 • 1
MINERAL CONSTITUEN CA MG NA	MOKELUMNE RIVER AT WOODBRIDGE (23)	}	;	0 . . 5.4 . 6.2	;	33.5
EC LAB FLD	CUMINE .	r I	2	55	65	ŝ
7 7 7 F A S C J		7.4	7.5	7.4	7.5	7.8
T <sub>F</sub> 8P	в 9 4300.00	87	52	<b>?</b> 65	- 19	69
OO SAT	B 9 4,	11.6	11.4	9.6	8.7 94	9.0
	13.5	7.19	10.02 904	3.42	3.62	34
ON NUMMER LAM SAMPLEM		,65 5000 ).00 ,66 5100	).00 (66 5090			
STATION OATE TIME	F94300.00	11/01/65 1400 144300.00	0900 F94300.00 n3/08/66	H94300.00 05/03/66 1145	Р94300•00 07/12/66 0730	P94300.00 09/16/66 1015

TABLE D 2

1 5		13	5 5	55	74	96 31	92	10	19	188	484	301	137
LITER TOS SUM		:	:	;	;	;	;	:	190	;	;	:	524
MS PEH S102		;	;	;	;	;	;	:	12	;	;	;	:
MILLIGHAMS PER H S102		.01	.01	0.0	.01	• 05	• 05	00.	00.	20.	9	• 05	• 10
Σ L		;	1	;	1	1	1	;	:	1	;	;	;
ج الآ الآ		:	:	;	;	i	;	:	10.0	1	ł	1	<u>.</u> .
THE LIT VALUE CL		29.	3£ 9.0	.56	36	4.0 1.13	1.15	23 20.	ئرد. درد.	î.	1270	25.15	517 6.12
PEH LI LENI P CTANCE SUA		;	1	;	;	;	1	;	2 <b>∶</b> ∵	;	;	1	77=
MILLIGHAMS PRA LITFH MILLIFUUIVALENI PEM LITFH PFHCENI HEAGTANCE VALUE U3 HCU3		1,44	76 1.25	1.12	6,11.1	40 1•31		1.20	= x m		2 ×	13	 
MILLI MILLI PFRCE CU3		0.0	0.0	0.0	9.0	C • 6	e .	0.3	0.0	0.0	0.0		0 • 0
175 175 175	(28)	;	;	:	1	1	;	:	٠. ٢	1	1	;	\$ . \$
MINEMAL CONSTITUENTS IN	AT ANTIOCH	₹ 5.	7 0	- ·	24	1.44	4. t.	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	÷ ; ;	3 T 2 T	+ 1 + 2 + 2 + 2	347	
L CON:		:	;	;	;	;	;	;	÷ ; ;	;	;	;	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
41NF MA	I RIVER	;	:	1	;	;	1	1	- 5 =	1	;	1	- 4-
F. P. F. L.D. F. L.D.	JOAQUIN	6 4 5	255	502	346	3 5	π *	Ţ ~	<del>2</del>	1410	4400	7690	Ē
1 2 1 1 2 2	SAN	7.5	7.3	7.3	7.5	7.3	7.3	7.5	7.5	7.7	7.7	7.9	0.8
÷ .	в 9 5020.00	19		54	45	67	56	65	- 89	70	7.0	73	7.0
60 SAT	B 9 5(	9.8	9.5	8.8	11.0 91	10.4	9.8	9.0	95	7.9	7.4	7.9	93
ς. υ .		0.22	2.00	1.40	3.08	0.30	0.90	2.35	1.50	9.55	10.88	10.98	
NUMHER LAH SAMPLEM		2000	5030	5 100	5000	ر و د	001.5	0000	6005	0002	0000	5100	0004
STATTON NU DATE TIME SA		895020.00 10/04/65	н95020.00 11/01/65 1245	695020.00 12701765 1330	695020.00 01/03/66 1020	495020.00 02/09/65 1115	495020.U0 03/04/66 1300	P95020.00 C4/U5/65 1400	695020.00 05704766 1315	H95020.00 06/08/65 1130	H95020.00 C7/12/65 1015	195021.00 14712766 0445	H95020.00 09714766 1315

TABLE D 2

MINFHAL ANALYSIS OF SURFACE WATER

Ŧ	I O Z		3 3	90	92	108	32	102 35	10	89 89		96 31	103	109
LITER TDS	SUM		;	:	:	:	:	:	:	102	:	:	;	251
IS PER	S102		ł	;	:	1	;	:	:	4	:	:	;	;
δ. Α.	no no		• 05	00.	• 0 •	20.	• 02	• 01	• 00	00.	00.	• 01	.01	00.
	LE.		;	:	1	:	:	:	;	;	;	;	;	:
ά	N03		;	:	:	:	;	:	:	0.7	;	:	:	1.5
TER EM LIT VALUE	CL		٥٤.	35	54	52	42 i•18	44	10 .28	10 .28 19	13	90	132	82 2.31 55
PEH LI LENT P	so.₄		:	1	1	;	;	;	;	10	;	1	;	24 550 12
MILLIGRAMS PEK LITER MILLIEGUIVALENI PEK LITER PERCENI REACTANCE VALUE	HC03		1.44 1.44	н1 1•33	80 1,31	1.15	ы 1.33	н2 1.34	64 1.05	1.00	13	1.30	ы 1,33	1.36 32
P E L L	C03	(;	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0
15 18	۷	(11) O	1	:	;	1	1	!	:	1.1	1	1	;	5.7
MINEMAL CONSTITUENTS IN	A A	RIVER AT MANDEVILLE ISLAND (112)	ر <del>بر</del> 0 ب	1.1.	411.74	34	34 1•4н	34	13	= 17	15.	5.57	3. 5. E	40.4
CON;	м( <u></u>	EVILL	;	:	;	;	1	:	;	2	!	;	1	1.44 35
MINEMA	CA	AT MANE	:	;	1	1	;	1	;	- ÷ +	1	;	1	14 16 16
E C LAB	FLD	RIVER /	747	293	398	428	369	373	7 1 1	157	194	254	641	757
у Т 1 А 1		OLD	7.5	7.3	7.1	7.5	к.1 7.3	7.5	6.1 7.5	7.5	7.5	7.7	7.7	7.9
τ. Σ		5110.20		63	51		67	50	63	. 89	69	70	7.1	72
QC	S A T	B 9	9.3	9.0	8.2	9.6	10.6 92	10.5 93	9.3	9.8	88		6.9	8.8
	?		4.58	4.20	5.90	5.70	6.55	5.95	5.40	3.40	3.1	5,05	2.65	
NUMBER	SAMPLEM		5000	5000	5,003	5300	9090	0005	0005	5000	5000	5000	5 100	5000
NO.			н95110.20 10/13/65 0945	н95110.20 11/09/65 1230	и95110.20 12/06/65 1345	н95110.2n 01/13/66 1020	H95110.20 A2701766 1415	н95110.20 л3/01/66 1215	м95110.2л 04/11/60 1015	H95110.20 N5/12/66 1500	м95110•20 06/U1/65 1230	H95110.20 N7/N9/69 N445	H95110.20 08/02/66 1345	н95110.2n 09/01/66 1245

TABLE D 2

	Į Ž		90 3 40	100	128	144	210	186	2 4 6	92	89	115	115	97
	SCS		:	:	;	:	:	;	;	111	;	;	;	242
4S PER	2018		;	;	;	;	1	;	;	4	:	;	;	;
MILLIGRAMS PER	20		• 01	.01	• 0 •	* 0 •	60.	.05	• 0 1	00.	.01	.01	.01	00.
Σ	LL.		:	;	1	1	1	1	;	1	1	:	1	;
ж Ш	N03		1	1	1	1	1	;	1	0 • 7 • 01 1	:	:	;	1 • 8 0 3
TER ER LIT VALUE	CL		44.	48 1,35	8.5 8.40	88.4.8	135 3.81	124 3.50	3.0°	13 .37 22	6 4 5 E	127	107	73 2.06 51
PER LI	SU4		;	:	1	;	1	ŀ	;	1.25°	;	;	:	55. 13.
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PERCENI REACTANCE VALUE	HC03		95 1.56	99	108	94	128	107	н1	1.00	61 1.33	84 1.38	81 1.33	89 1.46 36
MILL	£00		0.0	0 • 0	0.0	0.0	0 • 0	0 • 0	0.0	0	0.0	0.0	0.0	0.0
TS IV	¥	(60-	1	:	;	:	;	;	;	1.1	,	:	;	2.7
MINERAL CONSTITUENTS IN	2	KNIGHTSEN (109)	ر کی ۱ 1 • ق	34	6.4	7.0 × F	101	s.	1.24	55.	- <u>r</u>	3.35	4 C .	1.87
L CUNX	мG	KNIGHT	;	;	:	;	1	:	1	5.1 44.2 25	;	;	1	1.15
M ] NERA	CA	SLOUGH NEAR	:	1	1	;	1	1	:	4 7 5 4 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5	;	1	1	15 21 21
7 - 0 < 1	FLO		0.60	340	572	444	X T	8.25 8.25	325	172	218	699	761	244
r 2 _ 2	F(.)	ROCK	7.3	7.2	7.4	7.9	H.> 7.3	и.2 7.3	H.0 7.3	7.7	7.3	7.5	7.4	8.0 7.7
1 2		5220.00	1 89	65	52	77	50	\$6		69	7.0	75	8 8 9	72
C	SAT	B 9	7.2	9.9	7.8	10,4	10.2	8.3	8.2	7.4	7.8	7.0	6.2	93
I	-		2.35	4.58	5.36	5,04	3.75	3,20	3,05	3,65		4.42	7.60	
MUM A A A A	SAMPLEP		5000	5000	5700	0005	2006	5000	9000	5000	5.106	5 100	5000	5000
STATION NO			H95220.00 10/06/65 1015	H95220.00 11/04/65 1330	H95220.00 12/01/65 1245	H95220.00 01/03/66 1055	H95220.00 02/08/65 1430	н95220.00 n3/09/66 1230	H95220.00 04/05/66 1330	H95220.00 05/02/60 1330	495220.00 06/04/65 1015	495220.00 07/13/66 1500	495220.00 08709766 1300	н95220.00 09/14/66 1220

TABLE D 2

Į	I O Z	102	98 S 4 80	56	<b>6</b> 4	108 36	126 48	240	260	268 110	273 125	98	285
	SUM	;	;	:	:	ŀ	:	:	624 608	:	:	:	725 664
IS PER	2018	1	;	;	:	:	;	;	Ξ	;	;	;	:
MILLIGHAMS PER	20	.01	00.	.01	• 01	• 03	• 05	*0	• 03	• 03	*00	*0.	0 4 •
МІН	L	:	1	;	;	;	:	:	;	1	:	1	1 3
<u>۲</u> سا	NO.3	ŀ	;	;	:	;	:	;	1.7	;	:	:	0 • 0 0 • 0 1
MILLIGHAMS PEH LITER MILLIEGUIVALENI PEH LITER PERCENI REACIANCE VALUE	- -	99. 1.69	56 1.58	.68	15	67 1.89	84	170	207 5.84 55	215 6.06	222	5.89	226 6.37 53
PER L	404	}	;	1	;	;	;	:	81 1.64 10	ì	1	;	2.05
MILLIGHAMS PEH LITER MILLIEGUIVALENT PEH ( PERCENT REACTANCE VA	нс03	92	69 1.13	56.	67.	1.44	96	162	182 2.98 28	176	179	3.12	3.43
3 3 1 L L	£00	0.0	0 • 0	0.0	0.0	0.0	0 • 0	0.0	0.0	8.0 .27	0 · 8	0.0	0.0
TS IN	¥	(8)	1	;	1	1	;	;	4.6 •12	:	;	:	4.0 4.1 1
MINERAL CONSTITUENTS IN	A	BRIDGE (103a)	1.74	5.9	14.	55.25	62 2•10	122	127 5.52 51	125 5.44	130 5.65	125	135 5.87 50
ר כטאנ	Σ	BRIDG	1	;	;	;	;	:	2.30 2.30	;	;	;	34 2.79
MINERA	CA	AT TRACY ROAD	;	1	:	;	;	1	2.89	:	;	:	2. 2.89 2.55
ы О 4	FL0	AT TRAC 415	317	217	165	416	547	1050	1120	1130	1150	1130	1270
g -	F.L.D	CANAL	8.2	7.9	7.6	8.0	8.1	8.0 8.4	7.8 8.6	8.5	8.5	8.7	8.5 8.5
0 2	E J	LINE	63	52	45	20	56	102	7.1	<b>1</b> 65	74	83 -	12
9	SAT	GRANT 9.5 108	8.9 92	9.2	11.2	10.1 89	11.0	15.2 170	12.6 142	90	101	10.9	12.7
1		3.70	4.80	5.07	4.70	6.10	3.45	4.20	2.65	5.15	10.32	10.93	
NUMBER	SAMPLER	5000		5000	5000	2000	2000	2000	5000	5000	5000	5000	9000
STATION NE		R95300.00	1415 1415 11/03/65 1445	Н95300.00 12/02/65 1315	Н95300.00 01/04/66 1030	895300.00 02/08/66 1145	895300.00 03/07/66 1300	R95300.00 04/05/66 1115	895300.00 05/02/66 1100	H95300.00 06/07/66 1030	895300.00 07/11/66 1115	895300.00 08/09/66 1115	P95300.00 09/14/66 0930

TABLE D 2

I U		93	35	17	68	148	190	7.8	57	53	9 V 4 N	114	25
LITER TDS SUM		;	;	:	;	1	:	:	108	;	;	:	237
MS PER S102		;	:	;	;	;	;	;	14	:	;	;	;
MILLIGHAMS PER H S102		.01	.01	40.	.01	.06	• 05	00.	000	00.	.01	00.	• 1 0
N 1.		;	;	;	;	;	;	;	;	:	;	;	;
a S		;	;	1	;	;	:	;	0.7	1	:	;	1.6 .03
MILLIGHAMS PEM LITER MILLIEUUIVALENÍ PEM LITFH PERCENI HEACTANCE VALUE 03 HC03 SU4 CL NI		55.	67	36.	31	47.5	3.19	1.30	34 24 24	15	76	125 3.53	5 7 4 5 7 2 4
PEH LI LENT P CTANCE SU4		1	1	1	;	;	;	;	51 <b>%</b> -	1	;	ï	32
MILLIGHAMS PEM LITER MILLIEUUIVALENÍ PEM I PERCENT HEACTANCE VAI 03 HC03 SU4 CL		94 1.54	86	8.5 5.5	56.	88	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	75	61 1.00 61	1.23	1.38	1.34	1.43
MILLI MILLI PERCE CO3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(80	1	;	;	;	;	;	;	1.1	1	;	1	4.0.5
MINEMAL CONSTITUENTS IN CA 46 NA R	DGE (1	1.17	4.0 ° 5	26	2.13	3.22	E T D	≈ ₹	7 %±	در.	50 2.10	3.35	2.0.5
COND	OD BRJ	;	;	1	1	1	1	1	6 . 6 4 A 0 2 4 A	1	1	1	10 242
MINERA	AT ORWOOD BRIDGE (108)	:	;	1	1	;	1	:	د ا ۲۹۰	:	;	;	200.1
EC LAB FLO	RIVER A	316	450	292	267	699	786	263	175	506	4 4 4	631	4.63
F	OLD F	7.3	7.3	7.8	7.6	8.1	7.H	7.3	7.3	7.7	7.7	7.9	2.7
Ε S G	в 9 5320.20	89	63	67	67	20	\$ \$	. 69	1 89	19	75		72
00 SAT	B 9 53	7.3	8.8 91	9.0	10,4	9,4	8.1	9.5	7.3	7.8	7.2 85	7.2	9.4
r o													
NUMMFR LAB SAMPLER		5000	2000	2000	5000	2000	5000	5000	5000	5000	5000	5000	5000
STATION NUI DATE I		R95320.20 10/14/65 1000	H95320.20 11/09/65 1415	495320.20 12/06/65 1500	M95320.20 01/06/66 1430	R95320.20 n2/09/66 1030	H95320.20 03/09/66 1115	R95320.20 04/13/66 1145	H95320.20 05/13/66 0810	H95320.20 06/03/65 1015	H95320.20 07/04/65 1045	H95320.20 08/12/66 0900	H95320.20 09/13/66 1245

TABLE D 2

	I O		97	31	16	54 12	122 45	130	128 53	2 38 2 5	72	27	101 35	23
	SUR SUR		:	:	:	:	;	;	:	191	:	:	:	209
1S PER	S102		:	:	:	;	:	:	:	13	;	:	:	:
MILLIGRAMS PER	x		• 02	00.	• 02	• 01	*0*	• 02	• 05	• 0 1	.01	• 01	• 03	.20
Iω	LE.		:	;	;	;	;	1	:	:	:	1	1	:
Υ W	NO3		;	:	:	:	:	:	i	1.4 .02	;	:	:	0.0
IFR ER LITE	VALUE CL		69.1	1.80	4.0	.68	7.4	90	7.1	1.24	59.	75 2.12	115 3.24	1.95
PER LI	504		;	!	1	:	:	:	;	2 2 2 2	1	:	1	45. 13.
MILLIGHAMS PER LITER MILLIGUDIVALENT PER LITER PROCEST DESCRIPTION	HC03		91	75	72	58.	94	100	92 1.51	77 1.26 41	1.28	88	н1 1.33	1.46
MILLI	C03	( 40	0.0	0.0	0.0	0.0	0 • 0	0 • 0	0.0	0.0	0.0	0 • 0	0.0	0
12 IZ	×	RRY (1	1	;	;	ï	:	1	1	1.5 .04	:	1	1	0. 10.
MINERAL CUNSTITUENTS IN	Z Q	URT FE	1.H3	1.87	32	8.	62 2.70	66	5€ 2•1∺	3,4	14.	\$ .	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.74
L CUN	₩6	TON CC	;	;	1	:	1	:	;	27. 27.	1	1	1	14 1.15 31
MINERA	CA	AT CLIFTON COURT FERRY (104)	1	:	1	1	;	}	1	ار دو. دود	ŀ	1	;	15 21
: ر د نو		RIVER A	¥ [ <del>*</del>	11	320	215	555	583	205	324	3,8	456	2 0	6 6 4
ı i	F.0	OLD I	7.7	8.2 7.3	7.3	7.6	8.1 7.3	7.7	7.5	۲.۶ ۲.۲	7.3	7.7	7.5	7.7
9	E L	в 9 5340.00	7.1	<b>\$</b> ;	51	45	51.	\$ \$2	1 89	72	70	74	78	70
Ç	SAT	B 9 5	9.1	9.2 96		10.9	10.1 90	11.3	8.6 94	8.1 92	7.1	7.3	6.9 84	95.5
:			2.54	4.12	5.49	5.22	4.70	3.20	3.05	2,25	3,90	10.73	11.03	
MARR.	SAMPLEM		6665	5000	5000	5000	5000	5000	5000	2000	5000	5000	9000	5.400
STATION NUMAER			н95340.00 10/07/65 1130	н95340.00 11703765 1315	н95340.00 12/02/65 1430	M95340.00 01/04/66 1145	H95340.00 02/08/66 1330	н95340.00 n3707/65 1415	895340.00 04/05/66 1245	H95340.00 N5/02/66 1230	н95340.00 06/07/66 1200	H95340.00 07/11/66 1215	м95340.UO 08709766 1215	P95340.00 09/14/66 1045

TABLE D 2

MINFHAL ANALYSIS OF SURFACE WATER

	ΞŞ		130	121	76	77 26	116	160	128	114	88	102	0 2	96
,	105 50M		;	;	:	1	1	;	;	255	;	;	;	229 198
45 PER	2015		:	;	;	;	;	:	;	4.	;	;	:	;
MILLIGRAMS PER	T.		.01	• 05	.01	• 05	• 03	• 05	• 05	.01	.01	.02	00.	. 10
ηIκ	u.		;	:	;	;	;	;	;	;	;	;	;	1
œ lui	€0N		;	;	;	;	!	:	;	1 • 5	;	;	;	3.3 .05
MILLIGHAMS PER LITER MILLIGUILVALENT PER LITER PEDECENT DE CTANCE	CL		93	94	42 1,18	38	1.86	110	80	73	39	44	54	55 1.55 43
PER LI	504		;	;	;	1	1	1	1	14 8 5 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1	1	;	14 10
MILLIGHAMS PER LITER MILLIEGUIVALENI PER I DESCENT DESCRIPCION	HC03		137	110	1.21	63 1.03	85	116	98	91 34 34	90	94	1.40	101
MILLI	C03	(27)	3.0	0 • 0	0 • 0	0.0	0 • 0	0 • 0	0.0	0.0	0.0	0.0	0.0	0.0
TS In	×	PUMP	;	1	1 3	į.	9 9	1	;	5.7	;	1	;	5 · 0 · 5 · 5 · 5
MINERAL CONSTITUENTS IN	A	RINDGE	* * * * * * * * * * * * * * * * * * *	54.70	35	32	5.1 ×	8.70	5.4.4	40.5	1.26	1.37	35.	37
L CONS	м6	NEAR	1	;	:	1	;	;	;	12.99.	;	1	;	11 900 25
M]NE HA	CA	RIVER	;	;	;	1	}	;	1	2.5	;	1	;	٠ د د د
U <	FLO	JOAQUIN	7.65	t t	134	322	4 95	7 30	536	4 1 7	151	344	317	1 1
1 2	6. 1. 1.	SAN	7.3	н. 1 7.3	7.1	7.7	7.1	7.3	н. 2 7.5	8.1	7.5	7.3	7.3	H.1
3		9 5619.80	69	65	51	45	67	55	<b>;</b> 59	1 89	1 69	75	78	71
3	SAT	В 9 56	4.6	7.3	7.4	10,1	8.7	9,3	9.0	9.9	7.1	6.3	6.3	7.4
ī,	2		0.51	2.17	0.72	4.10	3.28	0.70	1.45	3.50	3,00	2.73	3.62	
3 4 4 5 7	SAMPLER		0005	5900	5000	5000	2000	5000	5000	5.100	0615	0004	2000	2000
STATION NUM			H95619.40 10/07/65 5 0815	495619.40 11/03/64 10/15	12/02/55 5	145619.40 01/04/66 5 1420	495619.40 02/04/66 5 0915	895614.80 83/07/66 5	445619.40 04/05/60 5 0900	495619.40 05/02/66 5 0400	195619.40 06/07/56 5 0800	н95619.но 07/11/65 5 0800	495619.40 08/09/66 5 0815	495619.40 69/14/66 5 0915

TABLE D 2

MINERAL ANALYSIS OF SURFACE WATER

	I S		93	31	52 10	o, e	α ν 4 4	139	244	246	95%	273 123	281 120	274
	SUM SUM		:	1	:	;	:	;	:	628 574	:	:	;	202
4S PER	2018		:	:	:	:	:	:	:	17	;	:	:	:
MILLIGRAMS PER	10		.01	.01	•01	00.	• 03	• 05	40.	• 05	• 05	40.	40.	0 +
Σ	la.		:	;	;	1	1	1	;	1	;	1	1	;
æ	NO.3		:	;	:	:	;	;	:	4.0 .06	:	:	;	.0.7
11ER 26-4 L 11	CL		55 1,55	1,95	20.	17	48 1,35	98	185	185 5.22 52	204	254 7.16	259	225 6.26 53
PER LI	504		:	;	1	ŀ	;	1	1	83 1.73 17	:	;	;	2.00
MILLIGHAMS PER LITER MILLIGUDIVALENT PER LITER DESCENT BEACTANCE AND IN	HC03		91	3.38	52 85	5.50	74	107	164	180 2.95 30	180	183	197 3 <b>.</b> 23	2.92
MILL	503	_	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.00	0.0	0.0	16 •53
1 S I S	¥	E (102)	;	:	;	1	1	!	1	2.6 .07	1	;	:	5.7
MINERAL CUNSTITUENTS IN	N A	AT MOSSDALE	1.74	2.0°	17	15	1.78	71 3.04	127 5•52	113 4.92 50	129 5.61	1 t c c c c c c c c c c c c c c c c c c	14 + + + + + + + + + + + + + + + + + + +	141 6.13 52
AL CUN	мG		;	1	:	;	1	1	1	2.22	;	1	1	2.63
MINER	CA	N RIVER	1	1	1	1	1	1	1	2.69	1	:	;	2.84
F C	FLD	JOAQUIN	392	75.5	193	178	385	928	1040	1050	1090	1250	1280	1230
a -	6.0	SAN	8.1 7.5	7.3	7.7	7.6	7.4	8.2	8.8 4.8	7.3 8.8	8.7	8.3	8.1	8.7
Ε Σ		5820.00	69	62	52	45	20 1	36	69	72	69	75	82	89
00	SAT	B 9	8.4	9.3	9.5	11.1	10.0 88	10.8	15.7	16.8 191	14.3 158	13.5 159	15.2 191	14.8
I			3.08	2.20	5.36	7.40	8.50	2.95	2.50	1.48	2.90	0.53	0.80	
Ν Ε Ε Ε Ε	SAMPLER		5,00	2000	5000	5000	2000	5000	5000	5000	5000	5000	2000	5000
STATION NO			H95820.00 10/07/65 1015	н95820.00 11/03/65 1145	R95820.00 12/02/65 1130	895820.00 01/04/66 1305	R95820.00 02/08/66 1100	R95820.00 03/07/66 1145	H95820.00 04/05/66 1030	895820.00 05/02/66 1000	R95820.00 06/07/66 0945	895820.00 07/11/66 1015	н95820.00 08/09/66 1000	H95820.00 09/14/66 0830

MINERAL ANALYSIS OF SURFACE WATER

1 0		8 0	60	0	e 0	<b>6</b> 0	53	00	0	920	63	2 <b>6</b>	80 O
<u>a</u>		:											
IR LITE		•	;	;	;	į	;	1	77	1	;	;	142
MS PE		:	;	:	;	:	:	:	22	;	;	;	ŧ.
MILLIGRAMS PER 8 S102		0.2	0.0	0 • 0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0 • 0
Z		:	;	ľ	;	1	;	;	:	;	:	:	:
TER NO3		;	;	:	!	;	:	;	.01	;	:	.01	0 • 3
TER LI VALUI		.01	.01	0.9 0.03	.02	1.2	1.0	0.2	.0.	.01	.01	0.6	.02
PER LI ALENT P ACTANCE SO4		;	:	:	;	:	:	:	2.0 40.	:	;	;	1.0
MILLIGRAMS PER LITER MILLIGUNIVALENT PER LITER PERCENT REACTANCE VALUE 03 HCO3 504 CL NO		104	97	98 1.61 1	92 1.51	94	1.13	46.	408° 40° 40°	3.6	1.46	131 2.15 1	124 2.03 95
MILL MILL PFRC C03	(176)	2.0	• 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0 .07 3
15 IX	ANVILLE	:	:	:	;	1	;	:	60.	:	C •	;	2.5 3.5 8
TITUEN	SUSAN RIVER AT SUSANVILLE (17b)	6.3	5.8 .25	5. 5.	5.3	5.9	9.5	3.9	3.2	2.1	5.0	7.2	7.1 .31 14
, CON 5	I RIVER	1	:	;	;	;	1	;	3.3	:	;	;	10 38 38
MINERAL CONSTITUENTS IN	SUSAI	:	;	1	1	1	1	1	55.	1	1	:	- 0° 4
FC LAB		173	170	158	9 4 1	155	122	66	9	ec.	141	206	101
P L A A C L C A A C L C A A		2.5	4.6	7.5	A.0 7.7	7.5	7.6	R.1	7.5	7.9	x	7.7	8 B
TENP		51 F	£ 3 F	34 F	7 4 F	ج. 1	4 6 7	ι. Τ	5. F	и ч ч	7 7 5	τ. Γ	7. 7.
0.00 S.A.T		100	11.1	12.5	12.A	12.7	111.3	0 0	9.3	101	 	а. С.	σ α 7 =
i.c		1.70 4.50	2. y	1.44	<u>.</u>	č	4	1117	ď	141	2.5	1.0	40.
NUMMER LAN SAMPLER		5000 5050	5000 5050	5000 5040	5050 5050	5000 5050	5000	5000 5050	0005 0505	5000 5050	Serve 5020	5000 5050	5050
STATION NI DATE TIME S.		641600.00 10/04/65 0955	641600.00 11/03/65 1020	641600.00 12/14/65 1625	641600.00 01/19/66 1130	641600.00 62709766 1045	641600.00 03/24/66 1250	641600.00 64719765 1550	641600.00 05/05/66 1230	641500.00 04709764 0700	641600.00 07/05/66 1405	641500.00 08/15/46 0910	641690.90 09/07/56 1110

TABLE D 2

	Į,		35	92	33	4.0	37	0 0	31	<b>3</b> 0	32	3.6	200
	SUM		283	51 39	63	62 53	78 5.6	85	63	32	ηυ φ υ ο	89	37
1S PER	2018		:	:	;	:	:	:	:	:	;	:	:
MILLIGRAMS PER	r		.10	00.	00.	00.	00.	• 00	00.	0 >	• 00	00.	•10
ž	UL.		;	:	;	1	;	;	;	;	;	1	;
¥	K-13		1.7	0.6 .01	0.1	0 • 0	0.0	0 .0	0.0	0 - 0 0 - 0 0 - 0	0.3	0.4 .01	0.0
1FK 2AL11	. לארטר גר		3.0 .08 10	0 • • • • • • • • • • • • • • • • • • •	6.0°	5.2 60.	5.7 .10	2.0	2.1	0 · 0 · 0	4.0°	0 0 0	.01
PER LI	*0s		0	7 .  	Α . . 0 . . t .		• ÷ ;	2.0 20.	£.5.	2.0.	• 0		0.0
MILLIGRAMS PER LITER MILLIGUJIVALENÍ PER LITER DEDENT DENCTANCE ANTOL	HC03		43 • 71 87	4 0 0 7	3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 4.0 4.3 4.3	:	:	32 52 18	46. 91.	44. 7.k	4 9 7
MILL	C03		0.0	0 • 0	0.0	0.0	0.0	;	1	0.0	0.0	0.0	0.0
ZI SIZ	×		1.5	1 · · · · · · · · · · · · · · · · · · ·	1.8 0.05 2.05	1 • 0 • 4 • 4	1.6	1.0	.03	¥.0. 50.	1. 4.0. 4.0.	.05 .05	1.2
MINEMAL CONSTITUENTS IN	ā	(53)	3.13	55.1		5.5	. 6 . 3	1.3.	*.1 *.13	.12	3.4	5.4 2.2 2.4 4.4	4.1.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
IL CON!	٩	FARAD	20.05	0 0 0 0 0	2.4 2.0 2.0 2.0	2.2 .14 18	2.5.	3.0	1.4	1.7		2.5 2.2 2.2	1.6
MINE P	CA	RIVER AT 1	**************************************	2.4.c	y	01. 02.	0 C C 4	11	3.0	0	8.6 4.4 5.1	4 . 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8.7 .4.1
د د	F LD	E RIVI	8,	æ	95	2	106	106	o r	3,	11	4.0	74
i i	FLD	TRUCKEE	7.9	7.5	H.0	7.9	7.9	7.9	7.7	7.5	7.5	7.7	7.7
3	E L	0 71195.00	53	47	41	1 4	3,4	7,7	46	50	53	<b>!</b> 55	59
9	SAT	G 711	9.5	10.3 106	10.5	11.0	101	10.9	11.1	9.3	9.1	8.2 104	8.5
1	· ·									980	471	511	435
G B F F F F F F F F F F F F F F F F F F	SAMPLER		5000	2000	5000	5000	9000	5000	5000	5000	5000	5000	5000
STATION NE			671195.00 10/04/65 1000	671195.00 11/15/65 1400	671195.00 11/30/65 1000	671195.00 01/10/66 1440	671195.00 02/07/66 1000	671195.00 03/21/66 1315	G71195.00 94/04/66 1145	671195.00 05/09/66 1240	671195.U0 06/06/66 0900	671195.00 07/18/66 1215	671195.00 09/07/66 1300

TABLE D 2

MINEMAL ANALYSIS OF SURFACE WATER

	Į,		32	32	32	32	37	99
LITER	SUM		:	:	:	58	;	53
1S PER	5102		;	;	;	Ξ	:	;
MILLIGHAMS PER LITER	10		00.	00.	00.	00.	00.	00.
ž	L		1	1	1	;	;	;
æ.	NO3		:	;	;	0.1	1	1.1
TER PEALLI VALUE	C L		1.0	1.1	1 • 6 • 05	1.5	1.3	2 · 0 • 0 • • 0 •
PER LI	\$05		:	1	1	1.0	:	3.0
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LITER PFRCENT REACTANCE VALUE	нС0Э		4 . 2.	50.	50.	5. 5.4.2.	3. 3. 2. 3.	53 784 85
	603		0.0	0.0	0.0	0 • 0	0.0	0 • 0
NI ST	¥		;	+	1	1.5	;	1.3 .03
MINERAL CUNSTITUENTS IN	۷ ۲	ат танов сіту (38)	5.4	5.1	• N ·	6.1 2.27 2.8	6.3	5.5
יר כטעי	мG	OE CIT	;	;	:	2.2 .18	:	4 • • • • • • • • • • • • • • • • • • •
MINERA	CA		;	1	:	. 4 4 . 0 x	1	a . 4 4 € 4 5 5 €
E C L A H	FLO	TAHOE	91	26	96	0.6	95	56
P I A L A	FLD	LAKE	8.0	8.0	7.5	7.7	7.8	7.7
F S T		G 7 1710.00	200	45	4.1	1 00	-19	<b>;</b> 3
00	SAT	G 7 1	9.4	10.2	10.0	9.4	109	8.1 106
r S	3		8.10	7.8	7.34	7.82	7.60	
NUMHER LAH	SAMPLER		5000	2000	2000	2000	2000	5000
STATION N DATE			G71710.00 11/15/65 1300	671710.00 01/10/66 1315	G71710.00 C3/21/66 1130	671710.00 05/09/66 1055	671710.00 07/18/66 1100	671710.00 09/07/66 1130

Į	S		98	27	31	0 0	29	32
LITER	SOR		;	:	;	35	:	71
4S PER	5018		:	;	;	12	;	;
MILLIGHAMS PER LITER	r		00.	000	00.	00.	00.	0 1
MIL	L.		;	;	;	;	1	;
¥	en Ž		;	;	ŀ	0.3	;	0.7
MILLIGRAMS PER LITER MILLIFOUIVALENT PER LITER PERCENT PLACTANCE VALUE	2 13		0.4	.01	.01		0 • 0	. 0.1 10.
PER LI LENT P	S 0.4		1	;	ţ	0.1 50.2	}	د . د .
MILLIGHAMS PER LITER MILLIFUUIVALENT PER LITE PERCENT PERCIANCE JALUE	4003	5a)	4 t	w 6	÷ .	2 - T	36 44.	1 1 1 2 4 2 W
	E03 HC03	CARSON RIVER, WEST FORK, AT WOODFORDS (115a)	0.0	0.0	0.0	0.0	0.0	0.0
21 2	۷	OODFOR	;	1	1	0.5 .01	1	1.6 40.4
TITUEN	4	, AT W	3.4	3.4	3.5	.0.	,	\$ 500 \$ 500
CONS	16	T FORK	;	:	;	1.0	;	• 7.7
MINEMAL CONSTITUENTS IN	CA	R, WES	1	;	;		;	2 . . 4 4 t
ب ا ا	F	N RIVE	74	7.3	0.7	ţ,	ť	ά
1 4	FLD	CARSO	7.3	7.7	7.4	7.4	7.5	7.5
ξ		G 8 2300.00	1 07	33	41	43	13	- 65
ê	SAT	G 8 23	10.9	11.9	10.8	6°6 86	8.2 106	9.0
Í	?			*	94	216	52	16
UMAER	SAMPLEH		5900	5000	2000	2000	5000	5000
z	TIME SA		682300.00 11/16/65 0945	682300.00 01/11/66 0930	682300.00 03/22/66 1245	G82300.00 05/10/66 0755	682300.00 07/19/66 1200	682300.00 09708765 1215

TABLE D 2

I Z		o 4	80 O	50	0 0	36	0
LITER 10S SUM		:	:	:	5.5 9	:	109 85
MS PER S102		1	;	;	1,4	:	;
MILLIGRAMS PER LITER TDS H SIO2 SUM		00.	02.	• 50	000.	000	.50
Σ		1	1	:	;	;	1
WO W		:	;	:	<b>?•</b> 0	;	1.0
TER EM LITE VALUE CL		2.2	90.	2.3 .06	1.5 .01	90.	× • • • • • • • • • • • • • • • • • • •
ENT P ENT P TANCE SU4		;	;	;	3.0	;	5.1
MILLIGRAMS PER LITER MILLIGUOIVALENT PER LITER PERCENT REACTANCE VALUE 103 HG03 SU4 CL NI	CARSON RIVER, EAST FORK, NEAR MARKLEVILLE (115)	1.00	1.13	1.10	32. 32. 88.	, s.	
	EVILL	0 • 0	0.0	0.0	0 • 0	0.0	0.0
<u> </u>	MARK	!	1	1	2.0 2.0 5.0	1	0.5 20. 3
TI TUEN NA	, NEAF	3 3	10 ·	2 · 6 ·	3.4	\$ . \$ . \$ .	, m, %
C000	r FORK	1	;	}	2.1. 21.	;	7 
MIRPHAL CUNSTITUENTS IN CA MIS NA NA N	R, EAS	;	1	ţ.	6.8.3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	1	- <u>i</u> 4
EC LAH FLD	N RIVE	136	2	0.4.0	6.1	06	۹۶۱
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CARSO	7.5	7.7	н. 2 7.9	7.3	8.1	8.3
۳. ج ص	G 8 3420.20	39	32	÷ 7	777	- 65	-1
Saf	G 8 34	11.2	12.3 103	10.8	10.0	8.1 105	8.6 105
r z							
NUMBER Lad SAMPLER		0004	3000	5+06	5006	9,100	5.00
STATTON NUMMER DATE LAY TIME SAMPLE		683420.20 11/16/65 1015	CH3420.20 (11/11/86 1015		. ₽	2 6	FH3420.27 P9/04/66 1130

TABLE D 2

	S Z		0 0	00	0 0	17	35	0 0
LITER	SUM		;	1	;	33	ł	97
4S PER	5102		:	ŀ	;	6 . 5	;	;
MILLIGHAMS PER LITER TAS	τ		00.	. 9 0	. 00	00.	00.	• •
Σ	i.		;	1	:	1	;	;
Υ L	N ( ) N		;	;	!	~ 0	;	0. 1.0.
TER TER LIT	J		50.	8 8 8	8 0	50.	0.4	4.0. 80.
PER LI	\$()\$		;	;	;	1. 1. 1. 1.	;	4 . • = J 1 .
MILLIGHAMS PER LIFFR MILLIFOUTVALENT PER LITFR PFRCENT REACTANCE VALUE	HC03 504 CL		÷ ÷	. 2. x	54.	2 2 5 4 2 3 5 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	***	1.4.1 4.0
	<b>*</b> 00	(116)	3.0	0.0	0 • 0	0 • 0	0.0	0 • 0
VIS 12	ĸ	EVILLE	1	1	}	2.0. 2.01	;	0 • 0 • 0 1
MINERAL CONSTITUENTS IN	d Z	AR COL	7.44 • 34	\$ °	· ·	7 7 7	4.7	2. 4. ×
aL CONS	M1,	ST, NE	ł	:	:	0.7	;	3.0
м101 г.	دّ	ER, WES	:	;	1	v . • v . t . i	i	- 5.5
٦. ١. ١. ١	<del>ر</del> آ	WALKER RIVER, WEST, NEAR COLEVILLE	Ξ	110	رن د	^	62	- 3 5
1	<u> </u>		7.3	7.3	7.5	7.3	7.5	%
ļ.		G 9 2400.00	39	33	39	45	58	54
e e	541	G 9 24	11.0	12.2	11.5	10.0	8.7	10.0
	7			172	216	754	193	134
JUMBER Lak	SAMP, ED		5001	601.2	5010	000	5090	96,5
20	TIME S		692400.00 11/15/65 5007 1145	692400.00 01/11/66 1210	6.92400.00 03/22/65 1115	692400.00 05/10/46 5000 0955	692400.00 07/19/65 0945	092400.00 09204765 1015

TABLE D 2

MINERAL ANALYSIS OF SURFACE WAIFH

2	I O		0	g o	0 0	0	£ 0	60
LITER	SUM		:	:	:	132 128	:	172
S PER	2015		1	:	:	4	:	:
MILLIGHAMS PER LITER TOS	c N		00.	.10	0 7	.10	• 10	ů.
2	u.		;	:	;	1	:	;
ĭ	ž.		ł	:	!	0 · ·	:	3.5 4.5 5
TER EM LIT	,		.02	6.0	¥0.	20° 20° 20°	90.	.03
PEX CI	- C-S		;	;	:	11.	;	1 2.
MILLIGHAMS PER LITER MILLIFUGIVALENT PER LITER DEDOFNI DERGINGE UNING	+0-4 ECOH EOO	·	105	122	110	115	123	13.5
MJLLI MJLLI	500	, (116a	0.0 105	0 • 0	0.0	0.0	0.0	0.0
15 1×	۷	GEPORT	;	;	:	7.0. 5.0.7	;	.11
TITUEN	ā	R BRIL	- <b>4</b>	, , ,	11	- ē ~		1.45
L CUM!	41,	T, NEA	:	;	:	3.0	;	 14. 10
MINERAL CONSTITUENTS IN	CA	R, EAS	;	:	:	3.7.0 5.00 5.50	1	۲. ۲. د د د
ن د د	F .	WALKER RIVER, EAST, NEAR BRIDGEPORT (116a)	e -	₹ ~	716	010	~ I ~	152
ī.			7.9	7.9	7.8	7.7	° ∞	æ. 
3	5	G 9 3200.00	43	41	42	56	- S9	; <sup>6</sup>
Ş	SAT	G 9 32	9.5	9.7	10.2	8.1 98	7.4	99
1				143 143	71 71	256 256	248	201
MARK.	54.42 LE4		5000	5.00	5 40 ه	9006	5000	5:100
	TIME SA		693200.00 11/16/65 1245	693200.00 01/11/65 1310	693200.00 03/22/66 1000	693200.00 05/10/65 1100	693200.00 07/19/56 0845	693200-00 0970H766 0915
							Oli	

TABLE D-3 TRACE ELEMENT ANALYSES OF SURFACE WATER

STATION	Northeaster (A1) (66) (81) (Ca)	Northeaster	Jortheaster (B1) (Cd)	Calif	constit	Calif ONSTIT (Co)	<u>.</u>   ⊢   ⊂	forn (Cr)	13 IN (Cu)		MICROGRAMS (Fe) (Ga) (	S PER	(Mn) (	(Ma)	(N	(Pb)	(T)	2	(Zn)
American River at Nimbus Dam (22a)	A7 1110 00	91/6	2	0.57*	0.29*	* 7	****	# 7. 	1,4*	7.7	5.7*	0.29*	****	0,29*	2.7	1.4*	0.57*	9.0	5.7*
American River of Tacrahento (22)	AU 71.0.00	9/16	13	0.07*	0.2%	1.4*	*,	*,	*:	1.5	5.7*	0.29*	* 2.1	0.29*	8.7	* -7	0.57*	1.7	5.7*
near Wheatland (78)	AU 65 M. UU	4/15	9.7	0.57*	0.29*	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	*7.1	* -7	0	5.7	0.29*	1.4*	0,29*	5,6	*7 -1	*42	ъ*:	5,7*
	ля 1120, ю	9720	-2	0.57*	0.29*	4 7	*7 1	1.4*	13	17	5.7*	11.29*	* 7.	0.29*	0.7	1.4*	57*	2.1	5.7*
Calaveras River near stockton (16h)	80.2520.00	9 1	51	*2.0	0.29#	1.4*	*,	*!!	*:	13	*1.75	0.29*	***.	0.29*	2,4	* -7	0.57*	3.1	5.7*
consummes hiver at Michigan Bar (9.2)	BI 1150 00	9 12	7.7	0.57*	0.29*	*7	***:1	****	9.9	23	5.7*	0.29*	1.5*	0.29*	2,1	* 7 1	11,57*	9.	* 6
Delta-Crevs Channel near Walnut Grove (9%)	89 17(	27 6	*	+ 23.4	*67.0	*,	**	1 *	*: :	2	<u>*</u>	0.29*	***:	29*		*,	*,	-	*1.
	AU 51 13.11	9 1	7	0.57*	62.0	1 47	* 7 -	*,	* 7	9.0	5 7*	n 29*	* , , , , , , , , , , , , , , , , , , ,	*62 .		X,	* t: 3	13	.7*
	A+ 114+ 3	9 1	7	*22.0	0.294	* ? .	*,	×	*7	9.1	*1.5	1 29%	*,	. 29*	F1 →	*,	*		* 1. "
codification (2.5)		9 15	J.	0.57*	57.7	*:	*,	* -7 -1	*7.1		*	1 29*	*	*62 0		*,	0.57*	7	.7*
lid wiver at Mandellia Line 3 office		7 0	1 6	1. 174	-	7	*,	*,	* 7		42.5	*51. 0	1.4*	-	r i	*,	6.57*	1	<i>*</i> .
	A 16-	7.0	771	13	267 -	27	5.5	× * · ·	*,	10444	***	#67 o	4.7	0.29*	15 at	* *	22 0,17*	11	**
(12c)	Au 27 - 1, 1	9/13	37	0.57*	0.29*	*, *,	* * *	**7.1	* *	36***	5.7*	0.29*	* *	0.29*	1.8	* * *	0.57*	11	31.
deraments River at Colusa (136)	VII 2420 0)	71,5	27	0.57*	0 29*	*, *	* * *	* * *	2.2	34***	5.7*	0.29*	* :	0.29*		*	0.07*	6:10	25.7*
at Colusa odkin Orain (145)	A0 2430 02	9/15	5 -5	0 57*	0 29*	* * *	***	*, *,	*,	7.0	2 14	0.29* 0.29*	1 	*4.7	2.3	* * * 7 " "	1.9	5.5	34.
River at Freeport (176)	89 1449 911	4/6	9.3	**	0.67*	3.3*	3.3*	3,3*	3,3*	73	13*	0.67*	3,3*	0.67* 0.67*	3.3	3,3*	1.3*	1 2	13*
at Hamilton City (15)	A0 2530 00	9/14	37	0.57*	*62 0	35	* * 2 - 7 	* * *	5.7	29***	5,7*	0 29*	13.4*	0,29*	2:2	* * 1	1.2	11.7	15,7*
River at Ne wick (LD)	A2 1 1	374	25	1 3*	U 67#	1.3*	3,3*	3.3*	3.3*	31***	13*	0.29*	3.3*	1 67*	2.5	* * * * * * * * * * * * * * * * * * * *	1.3*	5.1	7.3
derthente River at Rio Vista II).	B4 121 - Ju	9 12	â	<i>t.</i>	20%	*,	8 9	*,	* 7	5.6	, t	*62.0	* 7	*62 n	20.	* 7	*657		ţ
	.7 119 c. eu	2116	o. 6	*25 0	- 59×	*****	**	*, 	* 7	66	5,7*	0.29*	*,	0.29*	2.1	*,	7.33*	*6217	5.7*
huba River at Maryswille (21)	Nr 6129 e	9/12	9.7	0.57*	0.29*	*,	* .:	* 7	* -	23	5.7*	54*	*,		2,5	*	1,57*	=	5,7*
				_	_													_	_

\* Rough, and Loss than the about indicated
\*\*\* Account are equal to, but libitive a stan the a unit indicated
\*\*\* Recolls are more than the amount indicated

## TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER Northeastern California

T.									
Station		l c	alifarm	Turb	idity	MBAS	AS In	P04	Other
Number	Date 1965-66		MPN/mt	PPM	UNITS	mg/l	mg/l	mg/l	Constituents
A7 3100.00	11/2 1/5 3/24 5/12 7/5				1 5 5 1	0.0	0.00	0.00	
A7 1110.00	10/4 11/2 11/30 1/5 2/7 3/8 4/6 5/3 6/10 7/15	6.2 23 62 50 620 230 23 29 62 62	6.2 23 62 62 620 230 23 620 23 13		1 1 4 4 3 1 1	0.0	0.00	0.00	
AU 7140.00	10/8 11/2 11/30 1/5 2/7 3/8 4/8 5/3 6/10 7/15 8/8	2.3 23 13 6.2 14 62 62 23 21 23 62	62 23 2.3 130 62 230 62 23 23 2.3 2.3 2.3		1 4 4 3 3 1 1 1 2	0.0	0.00	0.01	
A7 4150.00	11/2 1/5 3/24 5/12 7/5	2.3	13		25 5 2 20 2	0.0	0.00	0.00	
AU 4520.01	10/6 11/3 12/13 1/17 2/10 3/2 4/12			5 4 4 2 1 1 4		0.0	0.00	0.46	
A4 5110.50	10/6 11/3 12/13 1/17 2/9 3/2 4/12 5/2 6/2 7/6			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.0	0.00	0.04	
A4 7110.00	10/7 11/4 12/13 1/5 2/4 3/8 4/12 5/2 6/2 7/6			1 1 3 10 5 2 5 1		0.0	0.00	0.12	
A0 6550.00	10/8 11/5 12/3 1/7 2/11 3/10 4/7 5/5 6/9 7/14 8/11 9/15	0.23 23 6.2 2.3 2.3 130 6.2 23 2.3	0.62 62 6.2 6.2 1.3 50 23 62 0.62 6.2		1 1 3 30 15 5 2 1 2 2	0.0	0.00	0.18	
A0 4250.00	10/6 11/3 12/1 1/5 2/8 3/8 4/6 5/4 6/9			1 0 1 10 1 1 1		0.0	0.00	0.02	
	A7 3100.00  A7 1110.00  A0 7140.00  A0 4520.00  A4 5110.50	A7 3100.00 111/2 1/5 1/5 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/7 1/6 1/7 1/6 1/7 1/7 1/6 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7	A7 3100.00 11/2 1/5 1/14 2/12 2/17 2/3 11/3 62	A7 3100.00 11/2 1/5 3/12 7/5 7/19 6.2 6.2 6.2 11/2 23 23 11/30 6.2 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 5.0 6.2 6.2 11/3 6.2	A7 3100.00 11/2	A7 3100.00 11/2	A7 3100.00 11/2	A7 3100.00   11/2   1/3   1   0.0   0.00    A7 1110.00   10/4   6.2   6.2   1   1   0.0   0.00    A7 1110.00   10/4   6.2   6.2   1   1   0.0   0.00    A7 1110.00   10/4   6.2   6.2   1   1   0.0   0.00    A7 1110.00   10/4   6.2   6.2   1   1   0.0   0.00    A8 1110.00   10/4   6.2   6.2   1   1   0.0   0.00    A8 1110.00   10/4   2.3   23   1   0.0   0.00    A0 7140.00   10/8   2.3   23   1   0.0   0.00    A0 7140.00   10/8   2.3   23   1   0.0   0.00    A0 7140.00   10/8   2.3   23   1   0.0   0.00    A1 110   11/10   13   13   13   14    A2 1110.00   11/2   1   1   0.0   0.00    A1 110   11/2   1   1   1   0.0   0.00    A2 110   11/2   1   1   1   0.0   0.00    A3 110   11/2   1   1   1   1   0.0   0.00    A4 110.00   11/2   2   2   2   2    B4 6 2 23   23   1   0.0   0.00    A7 110.00   11/2   2   2   2   2    B5 13/2   2   2   2   2    B7 14   2   2   2   2    B7 15   2   2   2    B7 16   2   2   2   2    B7 17 18   2   2   2    B7 18   6.2   2   2    B7 19   1   0.0   0.00    A0 4520.00   10/6   1   1    B7 17 17   1   1   0.0    A0 450.00   10/6   1   1    B7 17 17   1    B7 17 17   1    B7 17 17   1   1    B7 17 17   1    B7 17 17   1   1    B7 17 17   1    B7 17 17   1   1    B7 17 17   1	A7 1100.00  11/2 1/3 1/3 1/4 3/12 3/12 3/12 3/12 3/12 3/12 3/12 3/12

# TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER Northeastern California

	Northeastern			Califo	rnia					
Station	Station	Date		Coliform	Turb	idity	MB4S	AS In	P04	Other
310101	Number	65-66		MPN/m1	PPM	UNITS	mg/I	mg/I	mg/l	Constituents
Big Chico Creek near Chico (31)	As 2110 00	10°6 11°4 12°1 1 6 2/8 3/9			1 0 1					
		4/6 5'4 6/9 7/13 8/10 9 1+	2.1 23 0 62 21	6.2 62 2.3 62	1 1 1 1	U. 0	0.00	0.03		
Butte Creek mear Chico (Sw)	Ass 111U OR	10/6 11/3 12/1 1/5 2/8 3/8			1 0 2 40 1 1					
		4/8 5/4 6/9 7/13 8/10 9/14	2 3 6.2 0 62 2.3	2.3 23 13 5.0	1 1 1 1 1 1	0.0	0 00	0.00		
Cache Creek near Lapav (50)	AS 1120.00	10 5 11/19 12/8 1/13 2/14 3/24		7.5	3 175 2 90 10 4					
		5/13 6/3 7/15 8/9			7 7 3	0.0	0.00	0.06		
Cache Creek near Lower Lake (42)	AN 1350.00	11/3 12/9 1/7 2/8	2.3 62 13 230 6.2 2.3	6.2 52 230 620 62	5 10 5 70 25	0.0	0.00	0.10		
		3/4 4/7 5/4 6/7 7/13 9/14	2.3 2.3 62	6.2	10 5 5 10 5 20	0.0	0.00	0.33 u.36		
Cache Creek, North Fork near Lower Lake (79)	AH 2050.00	10/5 11/3 12/9 1/7 2/8 3/4 4/7	6.2	23	1 0 1 250					
		5/4 6/7 7/13 9/14			1 1	0.0	0 00	u 05		
Calaveras River below New Hogan Dan (16c)	32 ±300 00	9/14 10/4 11/1	9.5		3	0.0	0 00	0.17		
		12/2 1/3 2/7 3/7 4/4 5/3 6/6 8/6 9/12	9.5 23 5.9 21 13 0.23 2.3 2.3 2.3	2.3 23 62 0.62 2.3 23 23 23 2.3 2.3 2.3 2.3 2.3 2.3 2		4 3 4 2 4 1 1	0.0	0.00	0.02	
Calaveras River above New Hogan (Uam (15d)	82 5899,50	10/4 11/1 12/2 1/3 2/7 3/7 3/7 5/3 6/6 7/11	23 6.2 23 62 6.2 6.2 6.2 6.2 2.3	2 1 23 230 130 0.23 13 6.2 2.3 2.3		1 1 2 10 1 1 1 1 3	1 1	1 61	n al	
Calaveras Raver at Jenny Lind (15a)	Bo 25911 1P1	10/13 11/9 12/6 1/6 2/1 3/k 4/11				3 1 4 5	UU	u, un	0.01	
		6/3 7/5 8/9 9/1				ample	Broken 0.0	0.00	U.01	

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
Northeastern California

			theast	ern C	alifo					
64-4-	Station	Dot-	C	oliform	Turb	idity	MBAS .n	AS in	P04	Other
Station	Number	Date 65-66		MPN/mi	PPM	UNITS	mg/I	mg/I	mg/l	Constituents
Calaxiran Mayor at Stockton (101)	BO 2521 00	10/14 11/3 12/6 1/6 2/1 3/1 4/13 5/12 6/1 7/12	Dry Dry 230	62		4 60 40 5 40 3 55 10	<b>U.</b> U	0.00	0.11	
Clear Creek m.a. Izv (12d)	A3 6130,00	8/12 9/1 10/7 11/4 12/13 1/5 2/4 3/2 4/13 5/3 6/3	Ory		3 3 4 5 10 2 1	5	0.0	0.00	0.05	
Clear Lake at Lakeport (+1)	AN 1720 00	7/7 9/2 10/5	1.3 62	23	1 1 30		0.0	0.00	0,00	
		11/3 12/9 1/7 2/8 3/4 4/8 5/6 6/10 7/21 9/14	6.2 6.2 2.3 2.3 2.3 2.3 6.2	6.2 6.2 2400 23 62 2.3 23 6.2 1.3 23	40 40 70 45 50 25 10 5		0.0	0.00	0 15	
Colusa Bavin Drain mear Colusa (47)	AO 2976.UC				30 35 30 525 210 25 65 45 40 25 25 35		0.0	0.00	0.30	
Cottonwood Creek mear Cottonwood (12b)	A0 3520.00	10/7 11/4 12/13 1/17 2/10 3/2 4/13 5/2 6/2 7/6			1 1 4 25 15 5 25 2 1		0.0	0.00	0.00	
Cottonwood Greek below N rth Fork Cotton- wood Creek (11a)	A0 3540.00	11/4 12/13 1/5 2/4 3/2 4/13			1 0 5 180 105 10 5		0.0	0.00	0.07	
Cottonwood Creek, South Fork above Cotton- wood Creek (11h)	AO 3595.00	5/3 6/3 7/7 9/2 10/7 11/4 12/13 1/17 2/10 3/2 4/13			1 1 1 1 1 25 4 2 40		0.0	0.00	0.03	
Consumnes River at McConnel (94a)	BO 1125.00	5/3 6/2 7/6 11/1 1/6 3/8 5/4 7/12 9/1	Dry 230 2.1 620 DRY	620 2.3 6.2	1 1 1	5 3 1	0.0	0.00	0.00	
Consummer River at Michigan Bar (94)	81 1150,00	l	Dry			1 4 1 1	0.0	0.00	0 00 0.01	
									l	

# TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER Northeastern California

		Noi	rtheast	ern (	allfo	ornia				
	Station	_	C	oliform	Turb	oldity	MBAS	4.5	P04	Other
Station	Number	Dote 1965-66		MPN/ml	PPM	UNITS	mg .	mg ·	mg l	Constituents
Cow Creek near Mallvalle (ASa)	A. 8110.00	1 7 7 11 4 12 13 1 17 2 /4 3 /7 4 / 13 7 / 2 6 / 2 7 / 6 9 / 1			2 1 1 3 45 4 10 1 1 5 2		0,0 0,0	41,000	0.30	
Delta Cross Channel near Walnut Grove (98)	89 1704,00	10 6 11/1 11/29 1/3 2/9 3/8 +/6 1/3 6/8 7/12 8/12 9/12	230 62 130 62 620 62 1300 620 23 6.2 236 1300	6.2 500 230 620 230 620 230 62 62 62 62 2400		2 3 5 10 9 4 40 5 4 10 7	0,0	0.00	0.26 U.47	
Elder Creek ? Gerber (9%a)	Au 3320 00	12:13 1/17 2/10 3/2 4/12 5/2 6/2			30 15 3 20 1		e n	U. <b>0</b> 0	0,05	
Elder Greek near Paskenta (13e)	A3 3110.00	10/7 11 2 12/2 1/6 2/9 3/8 4/6 5/4 6/8 9/13			1 0 45 210 15 25 1 1		0 U	U.00 U.00	0 07	
Feather River, Middle Fork mear Mercinac (19b)	AS 5100.00	10/1 11/8 12/7 1/14 3/3 4/14 5/11 6/2 7/7 8/4 9/2				1 0 2 1 1 2 5 1 1 1 1 6	0.0	0,00	0.01	
Feather River at Nicolaus (20)	AO 5103.00	10/8 11/5 12/3 1/7 2/11 3/10 4/7 5/5 6/9 7/14 8/11 9/15	2.3 23 620 62 23 230 6.2 13 2.3 62	1.3 50 620 23 6.2 23 2 3 6 2 0.62 23		5 40 5 44 5 4 5	0.0	0.00	0.03	
Feather River, North Fork at Big Bar (19a)	A5 3140.00	10/15 11/17 12/3 1/12 2/4 3/23 4/7 5/11 6/9 7/20 8/11 9/15				1 2 2 4 1 1 2 1 1 1 1	0 <u>-</u> 0	0.06	0.00	
Peather River near Oroville (19)	A5 1140.00	10/8 11/5 12/3 1/7 2/11 3/10 4/7 5/5 6/9 7/14 8/11 9/15	2.3 6.2 2.3 1.3 23 2.3 6.2 1.3 0.62 23	< 0.045 23 6.2 6.2 6.2 6.2 2.3 1.3 2.3 2.3 2.3		1 2 5 5 4 5 4 4 4 2 2	0.0	0.00	0.01	

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
Northeastern California

			IIIeusi			, init	MDAC	1.0	D0	
Station	Station	Dote		aliform	Turb	_	MB4S in	AS in	PO4	Other
	Number	65-66		MPN/ml	PPM	UNITS	mg/I	mg/	mg/I	Constituents
Feather River below Shanghai Bend (20a)	A0 5120.00	10/8 11/5 12/3 1/7 2/11				4 4 5 10 10				
		3/10 4/7 5/5 6/9 7/14 8/11 9/15				4 5 10 4 4 4 5	0.0	0.00	0.02	
Feather River, South Fork below Ponderosa Dam (19 c)	A5 6080.00					4 4 5 10 10				
		4/7 5/5 6/9 7/14 8/11				4 5 10 4 4 4 5	0.0	0.00	0.02	
Feather River, West Branch near Yankee Hill (19d)	A5 2100.00	9/15 10/15 11/16 12/3 1/12 2/4 3/10				1 2 2 1 3 4	0.0	0.00	0.06	
		4/7 5/11 6/9 7/20 8/11 9/15				1 1 1 1	0.0	0.00	0.00	
Grant Line Canal at Tracy Road Bridge (103a)	B9 5300.00	10/7 11/3 12/2	0.06 6.2 620	0.23 6.2 230		5	0.0	0.00	0,07	
		1/4 2/8 3/7 4/5 5/2 6/7 7/11 8/9 9/14	620 62 6.2 62 6.2 2400 12 62 230	230 62 2.3 230 5.0 230 9.2 21 62		20 55 15 10 35 20 20 20 20 20	0.0	0.00	0.60	
Indian Creek near Crescent Mills ** (17d)	A5 4320.00	11/17 1/12 3/23 5/11 7/20 9/13	13 8 7 65	14 9 7		15 5 25 10 4	0.0	0.01	0.05	
Indian Slough near Brentwood (107)	89 5279.80	10/14 11/19 12/6 1/6 2/8 3/9 4/13				25 40 15 5 25 5 35 50 40	0.0	0.00	0.32	
Italian Slough near Mouth (106)	B9 5279.50:	6/3 7/8 B/12 9/13				45 45 25	0.0	0.00	0.2B	
	27 3219.30	10/7 11/4 12/1 1/6 2/2 3/2 4/6 5/4 6/1 7/6 8/3 9/6				15 17 15 30 20 27 25 45 70 60 35 30	0.0	0.00	0.30	
Lindsey Slough near Rio Vista (113)	89 1260.00	10/6 11/4 12/10 1/14 2/9 3/3 4/14 5/20 6/17 7/15 9/6	<0.045 230 620 230 62 23 6.2 6.2 5 6.2 23	<0.045 23 620 230 130 62 13 23 23 62		50 30 15 135 105 80 60 65 75	0.0	0.00	0.29	
Little Potato Slough at Terminous (99)	89 4120.10	11/9 1/3 3/1 5/12 7/B 9/12	43	92		10 40 15 10 30	0.0	0.00	0.40 0.17 0.96	

<sup>\*\*</sup> Coliform by Millipore Filter Method

# TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER Nartheastern California

		Nartheastern			Jalifa			r		
Stat on	Station	Date		Coliform	Turb		MBAS n	A.S.	P04	Other
	Number	65-66		MPN/ml	PPM	UNITS	mg/I	mg/I	mg /I	Constituents
McCloud River above Shasta Lake (is)	A2 2140.00	10/4 11/1 11/29 1/3 2/7 3/7 4/8 5/3 6/7 7/7 8/12 9/13			1 1 1 1 1 1 2 1 1 1 1 1		U.D	0.00	0.04	
Mill Creek near Mouth (88)	Au +110 00				1 1 3 3 1 1 5 5 1 1 1 2		0.0	0.00	0.06	
Mokelumne River below Camanche Dam (23a)	82 1170 00					1 2 2 1 1	0.0	0.00	U. 00 U. 03	
Mokelumne River at Woodbridge (23)	89 4300.00	1/6 3/8 5/3 7/12 9/16	6.2 5.0 2.3 6.2 13 5.0	6.2 1.3 0.62 6.2 23 230		2 4 4 1 3	0.0	0.00	0.02	
Old River at Clifton Court Ferry (104)	89 5340 00	10/7 11/3 12/2 1/4 2/8 3/7 4/5 5/2 6/7 7/11 8/9 9/14	0,23 23 230 62 50 23 6.2 6.2 62 23 6.2 23	0, u6 6, 2 620 620 50 6, 2 23 13 13 6, 2 23		5 10 30 40 25 15 30 35 30 55 30 55	o. u o. o	0,00 0,00	0.32	
Old River at Mandeville Island (112)	B9 511U.2U	10/13 11/9 12/6 1/13 2/1 3/1 4/11 5/12 6/1 7/8 8/2 9/1				10 10 15 25 15 40 25 15 25 35 35	0.0	0.00	0.22	
Old River at Orwood Bridge (108)	B9 5320.20					25 15 35 40 40 50 30 35 25 40 40	U.O O.O	U 110 U.00	U.22 0 27	
<b>Old</b> River near Tracy (103)	B9 538∪ 80	10/7 11/3 12/2 1/4 2/8 3/7 4/5 5/2 6/7 7/11 8/9	0 62 210 620 620 620 620 7000 130 13 230 62 37	U.06 62 230 620 230 ≥ 24,000. 23 62 130 230 62		10 10 40 20 10 20 20 20 20 35	0.0	0,00	n.68	
Paynes Creek ne ar Red Bluff (88g)	AO 4620.00	9/14 10/6 11/3 12/15 1/17 2/9 3/2 4/1/2 5/2 6/2 7/6 9/7	23	21	2 1 3 2 2 2 2 1 1 5 1	15	0.0	0.00 0.00 0.00	0.73 U 25 0.42	

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
Northeastern California

	NOI	theast	ern C	alifa						
	Station		С	aliform	Turb	idity	MBAS	AS	P04	Other
Station	Number	Date		MPN/m1	PPM	UNITS	mg / l	mg/I	mg/l	Constituents
Fit River near Camby (17a)	Al 1680.00	10/5 11/2 12/14 1/18 2/8 3/23 4/19 5/4 6/9 7/5 8/15 9/8	6.2 23 2.3	6.2 7,000 13	30 10 10 30 40 50 35 35 20 30 10		0.0	0.00	0.10	
Pit River near Montgomery Creek (17)	A1 1020.00	10/7 11/4 12/14 1/18 2/4 4/19 5/4 6/9 7/5 8/4			1 3 4 2 5 1 1		<b>U.</b> 0	0.00	0.09	
Pit River, South Fork near Likely (18e)	A1 4400 00	9/8 10/6 11/3 12/14 1/19 2/9 3/24 4/19 5/4 6/9 7/5 8/15			2 1 2 3 3 5 10 25 35 35 35 20		0.0	0.00	0.16 0.30	
Putsh Creek near Winter< (M1)	A9 1250 00	10/6 11/4 12/9 1/14 2/9 3/3 4/14 5/20 6/17 7/15	<0.045 2.3 21 23 1.3 2.3 6.2 2.3 23 0.62 6.20	<0.045 62 62 62 23 2.3 6.2 23 6.2 62 2.30 2.30	20	1 3 2 15 5 1 1 1	0.0	0.00	0.02	
Red Bank Creek near Red Bluff (88d)	AU 3460.00	12/2 1/6 2/9 3/8 4/6 5/4			1 150 15 1		0.0	0.00	0.10	
Rock Slough near Knightsen (109)	B9 5220.00	10/6 11/4 12/1 1/3 2/8 3/9 4/5 5/2 6/8 7/13 8/9 9/14	<pre>&lt;0.045 62 21 23 6.2 6.2 230 23 23 2.3 6.2 2.3 62 230 23 23 2.3 62 230</pre>	6.2 6.2 62 6.2 6.2 6.2 6.2 6.2 13 2.3 6.2		10 15 15 5 30 40 25 35 30 35 30 35	0.0	0.00	0.22	
Sacramento River at Bend (12c)	AU 2785.00	10/4 11/1 11/29 1/3 2/7 3/8 4/5 5/3 6/7 7/11 8/9 9/13	230 620 130 6.2 62 62 62 620 62 130 620 23 0.6	230 62 62 62 62 23 130 24,000 230 7,000 620 620 2.3	2 1 5 4 25 3 5 1 1 1 1		0.0	0.00	0.13 0.08 0.11 0.11 0.08 0.05 0.05	
Sacramento River at Butte City (87a)	A0 2500.00	10/6 11/3 12/1 1/5 2/8 3/9 4/7 5/5 6/8 7/13 8/11	12	23	2 2 5 5 5 5 65 5 35 5 2 4 4		0.0	0.00	0.05	
Sacramento River above Colusa (14b)	A0 2430.02	10/6 11/3 12/1 1/5 2/8 3/9 4/7 5/5			10 2 5 10 65 10 21		0.0	0.00	0.12	

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
Northeastern California

	т		rineas		Turb		MBAS	4.5	1 50	
Station	Station Number	Date	'	Caliform MPN/ml	PPM	UNITS	mg I	ng/	PO4 in mg/1	Other
Sacramento River atoxe Colusa (1+t) Continued.	AU 2430,U2	61H 7×13			10					
		3 11 9 14			5 10		0.0	n, 00	0.10	
Sacrumento River at Colusa (131)	A+1 2+20 00	10 6 11 3 12/1 1/5 2/8 3/9 4/7 1/5	23 1300 230 23 23 23	230 130 620 23 62	10 3 5 75 90 10 35		0,00	0.00	0.11	
		6/9 7/13 8/11 9/14	6.2 2.3 6.2 6.2 2.3	6.2 23 62 23 6.2	4 5 4 3		0,0	0.00	0.06	
Sacramento Riser at Deita (11)	A2 1300 DU	10 4 11 1 11/29 1/3 2/7 3/8 4/5			1 0 2 4 2 10					
		4/5 5/3 6/7 7/11 8/8	23 U.23 0.62	2 30 130 0.62 2.3	1 1		0.0	0,00	0.14	
Sacramento River at Freeport (196)	39 1849 90	9 13 10/6 11/1	U L.B. <0.045 0.06 230	U 6 <u>R.B.</u> <0.045 <0.045	i	5	0.0	υ,υ0	U. 09	
		11/29 1/3 2/9 3/8 4/6 5/3 6/8 7/12 8/12	5.0 130 230 2400 500 230 620 230 230 230 210 7000 620 230 230 230 230 230 230 230 620 230 230 620 230 230 230 230 230 230 230 230 230 2	2.3 620 620 900 620 230 620 230 620 230 620 230 620 230 62 620 230 23 620 230 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65		5 10 90 4 25 4 10 10	0.0	0.00	*u.32 *u.45	
Sacramento River at Ke wilk (12)	A2 1010.00	10/4 11/1 11/29 1/3 2/7 3/8 4/5 5/3 6/7 7/11 8/11 9 13	23 62 1.3 0.06 0.6 0.2 0 62 0 06 23 130 23	23 6.2 0.45 23 1.4 0.62 0.01 24.000 62	2 1 5 3 4 2 1 1 1 1 1		0.0	0.00	0.12	
Sacramento Rivet near Hamilton City (13)	A0 2630.00	10/6 11/3 12/1 1/5 2/8	24000 230 620	2×000 7000 620	5 1 5 5 525 25		0.0	0.00	0.03	
		3/8 4/6 5/4 6/9 7/11 8/10 9/14	230 62 6.2 2.3 23 62	230 130 62 23 45 62 62 8. B. 0.06	10 35 4 3 2 1		0.0	0.00	0 U6 U.07	
Sacramento River at Rio Vista (16)	89 1210 00	10/6 11/1 11/29 1/3 2/9 3/8 4/6 5/3 6/8 7/12	62 23 230 230 230 620 620 620 620 230 62 230 62 230 23 23 23 23 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	R. B.		10 10 15 50 105 15 40 15 25 40	0.0	<b>0 0</b> 0	0.25	

<sup>\*</sup> Total phosphate

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
Northeastern California

		1101	theast		alifo					
Station	Station	Date		aliform	Turb		MBAS	A.S In	PO 4 in mg/l	Other
31411011	Number	65-66		MPN/ml	PPM	UNITS	mg/I	mg/I	mg/I	Constituents
Sacramento River at Rio Vista (16) continued.	89 1210.00	9/12	23 62	29 23		30	0.0	0.00	0.42	
Sacramento Slough near Kaights Landing (14a)	AO 2925.00	10/6 11/3 4/7 5/5 6/8 7/13 8/11 9/14			30 10 40 40 30 25 25 90		0.0	0.01	0.39	
. San Joaquín River at Antioch (28)	89 5020.00	10/6 11/1 12/1 1/3 2/9 3/8 4/5 5/4 6/8 7/12 9/14	0.23 230 23 230 23 13 62 230 500 23 620	0 23 62 230 62 52 23 5.0 2400 23 6.2 230		10 15 35 5 30 25 25 25 25 30 55 50	0.0	0.00	0.23	
San Joaquin River at Garwood Bridge (101)	89 5709,80	10/7 11/3 12/2 1/4 2/8 3/7 4/5 5/2 6/7 7/11 8/9 9/14	0,06 62 230 230 230 6,2 6,2 6,2 23 62 62 2400	0.06 62 230 130 620 2.3 6.2 5.0 23 62 620		15 5 20 55 30 10 35 20 15 25 20 20	0.0	0.01	1.5	
San Joaquin River at Mossdale Bridge (10%)	B9 5820.00	10/7 11/3 12/2 1/4 2/8 3/7 4/5 5/2 6/7 7/11 8/9 9/14	0.62 130 2400 620 2400 13 230 62 6.2 230 62 23	0.23 23 230 130 130 23 62 23 23 23 20 600		10 5 45 50 40 10 35 25 15 35 30	0.0	0.00	0.5	
Stockton Ship Channel on Rindge Island (100)	B9 5619.80	ı	0.23 23 62 62 62 23 6.2 62 2.3 1.3	0.62 500 62 230 230 2.3 13 13 6.2 5.0 6.2		10 5 30 40 25 10 20 20 25 30 50	0.0	0.00	0.36	
Stony Creek near Fruto (13f)	A3 1250.00	10/1 11/1 12/1 1/3 2/1 3/1 4/1 5/2 6/1 7/1 8/16 9/1			30 30 3 5 250 50 525 65 5 60 10 9u	83 80 370 90 900 100 5	0.0	0.00	0.06 0.08 0.09 0.09 0.14 0.14 0.08	
Stony Creek below Black Butte Gam (13c)	A3 1110.00				15 15 900 75 40 25 35 40 35 10	50 42 80 35 45 60 70 23 70	0.0	0.00	0.09 0.11 0.24 0.13 0.08 0.07 0.09	
Susan River at Susanville (17b)	G4 1600.00	ı			3 2 2 2 1 4 4 1 3		0.0	0.00	0.02	
		9/7			1		0.0	0.00	0.07	

# TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER Northeastern California

		NOI	theast	ern (	allfo	ornia				
Station	Station	Dote	С	oliform	Turb	idity	MBAS	AS	PO 4	Other
31011011	Number	61-66		MPN/ml	PPM	UNITS	mg/I	mg/I	mg/I	Constituents
Thome. Creck mear Mouth (9x5)	AU 3200,00	12/13 1/17 2/10 3/2 4/12 5/2 6/2 7/6			10 90 35 90 325 90 5		10,0	n <b>(</b> a)	U. 07	
Thoses Creek at Paskenta (134)	A3 2120 00	10/7 11 12 - 2 1/6 2/9 3/5 /6 5/4 6/6 7/13			1 1 15 1300 50 200 250 50 1	70 275 380 85 0	0,0	vi, ob	0,00 0 03 0,09 0.13 0.13 0.12	
Yuba River at Maryoville (21)	A0 612U.UU	8/10 9:13 11:5 1/7 3/10	1.3	U 23 2.3	1 1	0 4 3	0.0	0.111	n nî	
Yuba River near Smartville (21a)	A6 1100 00	5/5 7/14 9/1 11/5 1/7	1 3 2.3 6.2	6.2 0,62 23		1 4 2 1 4 4 4	0.0	U.01	0.01	
		3/3 5/5 7/14 9/2 LAH	DUTAN REGION	(No b)		1 1 1	u G	U.UU U.U0	0.00	
Carson River, East Fork near Markleeville (II%)	GS 3420.20	11/16 1/11 3·22 5/10 7/19 9/8	4.6 U U7 0.091 U.43 4.6	2.4 0 15 0.036 0.23 0.93 2.4		1 1 4 5 2 8	U U	0.00	u, us	
Carson River, West Fork at Woodfords (115a)	G8 2300 00	11 '16 1/11 3/22 5/10 7/19 9/8	2.4 0.23 0.14 0.93 2.4 0.64	4.6 0.23 0.23 4.6 4.6 0.32		1 1 1 3 2 2	0.0	0.00	0 02 U.02	
Lake Tahoe at Tahoe City (30)	67 1710.00	11/15 1/10 3/21 5/9 7/18 9/7	0 43 0.07 0.03 0.43 0.23 0.20	0.93 0.23 0.036 4.6 0.23 0.20		0 0 1 0 1 2	0.0	U.00	0.00	
Truckee River near Farad (53)	G7 1195.00	10/4 11/15 11/30 1/10 2/7 3/21 4/4 5/9 6/6 7/18 8/8 9/7	0.23 11 62 0.35 6.2 2.4 2.3 0.23 2.3 1.3 0.64	0.62 4.6 23 4.6 1.3 0.93 2.3 0.23 0.50 0.23 2.3		4 7 20 7 2 15 10 7 4 2 20 6	0.0		*0.04 *0.06 *0.24 *0.06 *1.02 *0.08 *0.04 *0.07 *0.05 *0.05	
Truckee River near Truckee (52)	G7 1600.50	11/15 1/10 3/21 5/9 7/18 9/7	U 20	0.28		1 1 1 1	0.0	0.00	U 01 0.03	
Walker River, East near Bridgeport (116a)	G9 3200,0d	11/16 1/11 3/22 5/10 7/19 9/8	2.4 0.04 0.036 0.091 > 11 0.32	0.43 0.04 0.43 0.073 0.29 0.32		15 4 5 4 4 4 25	0.0	0.01	0.23	
Walker River, West near Coleville (11b)	<b>G9</b> 2400.00	11/16 1/11 3/22 5/10 7/19 9/8	0.93 0.09 0.15 0.23 2.4 0.32	0.93 0.09 0.091 0.23 0.29 2.4		1 0 1 2 1 6	0.0	0.00	0.0z 0.01	

\* Total phosphate

TABLE D-5

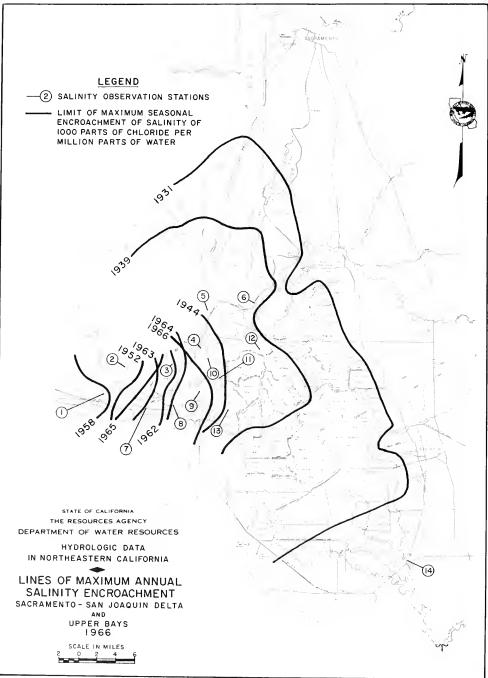
DESCRIPTION OF SALINITY
OBSERVATION STATIONS

	Стаптом	MAP REFER- ENCE NUMBER	TI INTE (a	RVAL	LOCATION
	STATIONS	NUMBER	Hours	Min.	DOOM TON
					SUISUN BAY
EO 3100.90	Crockett		3	30	West end of Carquinez Strait, south shore, 0.2 mile east of Carquinez Bridge on wharf of C and H Sugar Refinery Corporation
E0 3300.10	Martinez		3	50	Sampled from Shell Oil Company dock, about 0.6 mile downstream from Southern Pacific Company railroad bridge.
<b>B</b> 0 3200.90	Port Chicago		l <sub>4</sub>	20	South shore of Suisun Bay at U.S. Naval ammunition loading wharf below Port Chicago.
<b>E</b> O 3200.00	Middle Point				South shore of Suisun Bay, about 0.5 mile upstream from Middle Point at Allied Chemical Corporation yard.
B9 1070.10	Pittsburg	1	5	00	East end of Suisun Bay, south shore, at Pittsburg Yacht Harbor.
	0.337 - 133			0.5	SACRAMENTO RIVER DELTA
B9 1110.00	Collinsville	2	5	25 45	Sacramento River, north bank, at junction with San Joaquin River.  Sacramento River, south bank, 5.9 miles downstream from Rio Vista.
B9 1140.50	Emmaton Stouch Budden	J 4	5	55	
В9 1160.00	Threemile Slough Bridge	5	6	05	At junction of slough and Sacramento River.  Sacramento River at Highway 12 Bridge.
B9 1210.10 B9 1600.10	Rio Vista Bridge	6	6	30	Sacramento River, one mile upstream from Isleton.
B9 1600.10	Isleton Bridge	°	6	30	Dacramento Hiver, one mile upstream from islation.
					SAN JOAQUIN RIVER DELTA
B9 5020.00	Antioch	7	5	55	San Joaquin River at City Water Works pumping plant.
B9 5020.10	Antioch Bridge	8	6	10	San Joaquin River at Antioch Bridge.
в9 5040-50	Jersey Island	9	6	20	San Joaquin River, left bank, approximately 1.5 miles below mouth of False River.
B9 5060.00	Threemile Slough	10	6	30	Threemile Slough, west bank, at junction of slough with the San Joaquin River.
B9 5060.80	False River	11	6	40	False River, north bank, approximately 0.75 mile upstream from junction with San Joaquín River at Bradford Island.
B9 5100.00	San Andreas Landing	12	6	55	San Joaquin River, right bank, one mile below the mouth of the Mokelumne River.
B9 5220.50	Dutch Slough	1.3	7	05	At Bethel Island Bridge.
в9 5820.00	Mossdale Bridge	14	10	50	San Joaquin River at U.S. Highway 50 crossing about 3 miles southwest of Lathrop.
		}			

<sup>(</sup>a) Time interval between high tide at Golden Gate and time for taking samples at station.

### MAXIMUM OBSERVED SALINITY AT BAY AND DELTA STATIONS FOR SELECTED YEARS In parts of chloride per million parts of water\*

Station	(a)		-	- 7							
		1931	1939	1944	1952	195	1942	1963	1964	1965	19tr
Sacramento-San Joaquin Syst Unimpaired runoff in per of average (c)	tem rcent	35		t/3	171	169	93	132	r (	152	76
		1					-				
						Suisu					
Crockett	Bu 3100.90				13,200	, 11,900	13,900	15,100		13,000	15,-00
Martinez	D. 3300.10	16,900	1r ,400		1,700	ليلوا	12,700			11,200	12,000
Port Chicago	Ph 3200. 41				.,400	5,430	9,370	4,200	11,200	9,710	10,700
Middle Point	<b>9</b> 0 3200.00								10,100	9,840	10,100
Pittsburg	В9 1070.10				1,200	1,200	3,980	1,350	3,280	1,080	2,880
						ramento					
Collinsville	B9 1110.00	12,000	10,400	4,700	783	550	2,430	1,940	3,730	2,080	1,900
Emmaton	В9 1140.50					29	841	382	1,470	27c	1,370
Threemile Slough Bridge	B9 1160.00	8,000	5,900	1,010	175		232	134	459	103	+ 51
Rio Vista Bridge	B9 1210.10	7,400	4,050	;50	175	17	52	:8	£90	2c	195
Isleton Bridge	B9 1600.10	6,350	2,500	50	125	14	18	14	20	13	22
			-			-					
						1 Joaquin					
Antioch	B9 5020.00	12,400	9,200	4,000	354	1	1,770	1,040	2,:00	<i>4</i> 20	2,930
Antioch Bridge	B9 5020.10					122	479	317	1.92	21t	1,675
Jersey Island	B9 5040.50					5.2	84	135	963	147	1,200
Threemile Slough	B9 5060.00					45	130	î.b	St 5	60	269
False River	B9 5060.90									174	892
San Andreas Landing	B9 5100.00						57	41	72	29	143
Dutch Slough	B9 5220.50	-,100	2,250	690	he	110	192	-48	434	68	420
Mossdale Bridge	B9 5820.00	120	16.0	1.0	122	219	.08	1,4	318	170	274



### SAL-NITY OBSERVATIONS AT BAY AND DELTA STATIONS\* In parts of chloride per million parts of water

				Octobe:	r 1965			
stat_v	-	٠		14	18	22	26	3.0
B) 3100.50 Crockett E) 3300.10 Martinez B) 3300.90 Port Chicago B) 3300.00 Middle Point B) 1070.10 Pittsburg	8230 ed3230 3320	3140 2590	ed 3550 83590 2760 130	7710 5400 1130 146	80, 5680 2820 284 <b>al</b> 39	4740 274 <b>0</b> bdr2	9000 6090 3450	7220 5540 3400 d2000 a72
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Isleton Bridge	a26 a13 b9 b8	19 12 8 7	26 11 11 6	13 ramento 2b al2 ad7 7	al7 al1 b7 b5	17 10 8 7	22 14 7	a22 a12 6 6
B9 5020.00 Antioch B9 5020.10 Antioch Bridge B9 5040.50 Jersey Island B9 5040.00 Threemile Slough False Rives Landing Dutch Slough B9 5820.00 Mossdale Bridge	a42 a26 a14 a13 a15 a21	27 34 d10 16 15 15 22	50 25 bd18 13 15 16 a21	a38 a426 a17 a13 a16 14 dr24	a27 a22 a20 a17 a17 a24	35 26 24 17 18 12 27	29 a17 a1b a17 1c a29 103	a35 a27 a17 a14 a15 a14 a29
			1	Novembe:	r 1965			
Stat on	2	6		4	8		26	30
BO 3100.90 Crockett BO 3300.10 Martinez BO 3200.90 Port Chicago BO 3200.00 Middle Point B9 1070.10 Pittsburg	7850 6620 2980 2010 482	10200 8610 3980 3750 65	9850 4960 3800	9910 4400 4520 a182	9170 3690 ae2840 74	6870 a1400 1850	<b>2</b> 340 598	6880 5220 1770 1690 821
		_		am+r1c	Eler De la	-		
B9 1110.00 Collinsville B9 1140.50 Emmatch Threemile Slough B7 1210.10 Rio Vista Bridge B9 1200.10 Isleton Bridge	17 10 7 6	49 19 9 8 5	14-8 22 12 3 6	abd1 <sup>1,1</sup> all 8 7	31 15 10 7 6	26 8 9 8	al <sub>3</sub> 10 al0 9	17 12 10 11 7
B9 5020.00 Antioch B9 5020.10 Antioch Bridge	30 25	40	59 25	Jun Inagua a65	49	24	822 2-	22
B9 5040.50 Jersey Island B9 5060.00 Threemile Slough	bd20	27 18 14	ale 14	34 abd18 a15	32 18	33 24 15	2c abd19 ad17	a36 26
False River P9 5100.00 San Andreas Landing Dutch Slough	15 29 57	15 31	a15 a33	a15 a26 bdőb	17 39	16 43 445	a19 a49	31 56

<sup>\*</sup>Samples taken at four-day intervals approximately one and one-half hours after high sigh tide.

a Taken after low high tide.

b Taken on following day.

d Taken over one hour off scheduled time.

e Taken on preceding day.

f Taken two days earlier.

TABLE D-7 SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS In parts of chloride per million parts of water

					December	1965			
	Station	2	6	10	14	18	22	26	30
80 3100.90 80 3300.10 80 3200.90 80 3200.00 B9 1070.10	Crockett Martinez Port Chicago Middle Point Pittsburg	6840 6220 2330	ed9370 4 <b>180</b> 3590	8420 81520	Sursu 3810 916 8772 844	5990 1770 488 37	6930 5380 5240 1840 34	5840 932 461 bd34	5810 1840 1320 d33
B9 1110.00 B9 1140.50 B9 1160.00 B9 1210.10 B9 1600.10	Collinsville Emmaton Threemile Slough Bridge Rio Vista Bridge Isleton Bridge	17 12 7 7 6	13 12 11 6	a21 15 13 6 5	Sacramento 21 15 12 6 5	River Delta ! 18 14 8 8 7	12 14 7 6	a18 bd13 8 9	20 16 8 7 6
B9 5020.00 B9 5020.10 B9 5040.50 B9 5060.00 B9 5100.00 B9 5820.00	Antioch Antioch Bridge** Jersey Island Threemile Slough False River San Andreas Landing Dutch Slough Mossdale Bridge	25 17 27 30 29 59	35 20 bd34 33 28 31 63	41 26 436 28 435 22 22	San Joaquin 44 22 6434 422 27 20 50	35 23 426 24 20 46	32 20 cd29 8 a25 d22 a45	a31 18 a30 27 a46	33 21 31 328 17 46
	Station				January	1966		I	
		2	6	.0	14	18	22	26	30
EO 3100.90 EO 3300.10 EO 3200.90 EO 3200.00 B9 1070.10	Crockett Murtinez Port Chicago Middle Point Pittsburg	5380 <b>1</b> 670	4250 1120 859	2690 56 37	3210 132 a30 36	1590	5210 4900 1050 580 30	4310 3260 310 33 a26	6300 5020 2680 2990 31
					- programmento	River Delta			
B9 1110.00 B9 1140.50 B9 1160.00	Collinsville Emmaton Threemile Slough Bridge	16 12 14	19 15	17 al2	12 bd10 8	12 12 12	al2 13 al4	14 12 10	10 10
B9 1210.10 B9 1600.10	Rio Vista Bridge Isleton Bridge	9	13	ad10 7	10 6	10 7	7	9	6 5
89 5020.00 89 5020.10 89 5040.50 89 5060.00 89 5100.00	Antioch Antioch Bridge** Jersey Island Threemile Slough Falce River San Andreas Landing Dutch Slough Mossdale Bridge	34 19 29 30 24 63	35 20 a41 34 35 36 63 a42	840 32 847 827 832 24 868	San Joaquir 36 26 42 28 9 65	28 26 bd33 24 29 23 66	30 29 32 28 29 29 29 855 a60	35 29 bd31 21 35 27 64 118	32 33 29 32 16 464

\*Samples taken at Four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off scheduled time.

f Taken two days earlier.

\*\* Chloride values computed from conductivity recorder

#### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS In parts of chloride per million parts of water

_				Februa	ry 1966			
Statian	2	6	10	14	18	22	26	30
80 3100.90 Crockett 80 3300.10 Martinez 80 3200.90 Port Chicago 80 3200.00 Middle Point 89 1070.10 Pittsburg	5900 2050 1320 bd38	6500 1190 619 <b>a</b> 36	4000 50 a33 abd41	Sursur 6330 1810 104 d41	7560 <b>a2</b> 030 3240 617 36	6870 5370 1450 1100 42	6150 a108 a68 40	
B9 1110.00 Collinsville B9 1140.50 Emmaton	15 13 14	19 15	20 16	17	24 21	82 <sup>1</sup> 4 22	20	
B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Isleton Bridge	8 6	15 11 10	31 9 7	13 9 5	15 10 8	19 11 9	17 11 9	
B9 5020.00 Antioch B9 5020.10 Antioch Bridge** B9 5040.50 Jersey Island B9 5060.00 ThreenIte Slough False River B9 5100.00 San Andreas Landin Dutch Slough B9 5820.00 Mossdale Bridge	36 23 40 24 35 29 74 a74	35 36 ad39 36 76 d46	40 41 58 45 30 61	\$an Joaquin 43 46 53 41 bd51 33 75 bd88	36 45 51 44 36 80 a91	49 53 451 41 a44 35 83 ad96	46 53 52 29 44 28 79 4119	
			•	March	. 1966			
Station	2	6	10	14	18	22	26	30
80 3100.90 Crockett 80 3300.10 Martinez 80 3200.90 Port Chicago 80 3200.00 Middle Point 89 1070.10 Pitteburg	7360 3250 1980	8490 3140 2050 39	8020 1670 a422	Sursu 1730 ael97	6730 a3820 2030 908 28	a3550 317 101	7800 5270 248 1290 23	5760 4200 158 22
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough B71dge B9 120.10 Rlo Vista Bridge B9 1600.10 Isleton Bridge	22 16 8 6	28 22 17 12 10	21 16 16 6	21 20 13 9 6	River Delta 14 15 8 8	12 8 9 <b>a</b> 9 6	13 11 8 6 5	15 13 10 8 7
B9 5020.00 Antioch B9 5020.10 Antioch Bridge** B9 5040.50 Jersey Island B9 5060.00 Threemile Slough False River B9 5100.00 San Andreas Landin Dutch Slough B9 5820.00 Mosedale Bridge	ed39 56 44 32 38 8 55 4118	39 54 52 25 35 22 72	44 49 35 24 32 16 69 122	35 43 34 23 29 7	30 33 33 33 3430 15 25 15 65 a61	30 32 a38 22 15 a43 a196	23 26 28 17 23 13	19 23 5d29 17 20 8 34

<sup>\*</sup>Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day

c Taken two days later

e Taken on preceding day

f Taken two days earlier

Chloride values computed from conductivity recorder

#### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS\* In parts of chloride per million parts of water

				Apri.	1 1966			
Station	2	6	10	14	18	22	26	30
B0 3100.90 Crockett B0 3300.10 Martinez B0 3200.90 Port Chicago B0 3200.00 Middle Point B9 1070.10 Pittsburg	8510 a4950 1760 1670 23	8360 5150 2150 1050 abd26	2900 1050 29	Sursu 5570 d1630 468 261 20	10100 1360 3430 448	8490 6570 3680 2610 a46	8720 5550 4320 2400 bd153	9420 ed3820
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough E:	14	1 <sup>1</sup> 4 <b>a</b> 6	13 7 6	13 8	River Delto al7 a8	al5 13 811	83 d24 10	e49 e23 a8
B9 1210.10 Fic Vista Bridge B9 1600.10 Isleton Bridge	• 9 7 6	5 5	6 5	7 5 4	5 5	5 5	11 5	6 4
				San Jaaquir	River Delta			
B9 5020.00	20 23 21 12 36	a24 23 bd23 21 12 27	21 20 2h ed17 6 d23	18 19 15 11 13 5 28	a21 16 abd11 e9 aed13 a7 a26	a26 18 a14 a8 12 a8 22	57 22 24 <b>d1</b> 4 10 13	a75 28 all a7 a17
				May	1966		•	•
Station	2	6	10	14	18	22	26	30
E0 3100.90 Crockett E0 3300.10 Martinez E0 3200.90 Fort Chicago E0 3200.00 Middle Point E9 1070.10 Pittaburg	10000 4030 a170	11400 a5420 5560 4710 a320	5170 382	9340 5330 a1650 a217	9180 7210 4650 a126	11½00 6090 a2320	9630 ae4330 4950 3150	10400 8530 4660 4170 a348
				Sacramento	River Delta			
B9 1110.00   Collinsville	a65 a32 a10 6 8	437 a59 35 10 8	490 85 <b>1</b> 8 9 7	al08 al3 9 7	a39 a28 a12 8 7	485 69 23 9 8	258 110 55 9 8	a202 a63 a26 10 10
				San Joaquii	River Delta			
B9 5020.00   Antioch   B9 5020.10   Antioch   Bridge**   Jersey   Island   Threenile Slough   False River   San Andreas Landing   Ditch Slough   B9 5020.00   Mossdale Bridge   Mossdale Bridge	a73 36 a8 bd15 a8 a17 195	a97 102 89 24 a7 ad <b>1</b> 9	223 90 45 17 15 9	a88 56 a15 a12 a8 a18	853 39 28 811 828 83 d18	181 73 a19 14 7 17	180 87 45 16 16 8 20	all2 117 a22 a20 a18 a10 a19

\*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide b Taken on following day

c Taken two days later d A Taken over one hour off scheduled time

e Taken on preceding day

f Taken two days earlier
\*\* Chloride values computed from conductivity recorder

TABLE D-7

#### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS In parts of chloride per million parts of water

				June	1966			
Station	2	ь	10	14	18	22	26	30
80 3100.90 Crockett 80 3300.10 Martinez 80 3200.90 Fort Chicago 80 3200.00 Middle Point 89 1070.10 Pittsburg	11100 a5670 6550 a511	ad10300 6870 5960 a581	e11600 m8370 35490 34760 m810	10500 10500 10500 8300 6850 abd1150	13200 11900 9630 6220 a1370	13700 9400	e12000 a8850 38120 a5920 a2170	13600 10700
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Isleton Bridge	a467 a81 a41 17	1260 d234 16 12	a889 d292 a49 18 12	Sacramento a703 a180 a47 22 d12	a347 a290 50 22	2940 1110 651 63 16	abd699 a220 71 18	a1980 a842 a342 110 16
B9 5020.00 Antioch B9 5020.10 Antioch Bridge** B9 5040.50 Jerey Island B9 5060.00 Threenile Slough False River B9 5100.00 San Andreas Landing Dutch Slough B9 5820.00 Mossdale Bridge	a173 a147 70 a36 a11 20	628 270 121 36 90 11 24 218	a487 272 a71 a45 a38 a12 a32 d208	8an Jaaquin 8356 342 867 846 8445 814 842 226	A837 830 84570 470 84386 821 83 255	2510 1025 553 4244 344 16 112 249	a1250 1065 520 a196 a17 a112 a228	a1370 1675 a257 a227 d592 a33 a163 222
		•		July	1966			
Station	2	6	10	14	18	22	26	30
80 3100.90 Crockett 80 3300.10 Martinez 80 3200.90 Fort Chicago 80 3200.00 Middle Point 89 1070.10 Pittsburg	14200 9750 <b>a</b> 2030	8540	312300 37430	312500 10400 2620 a2280	n Bay 14800 <b>a</b> 7770 9450	13700 8460 a2880	314300 39210 36570 ad2530	15100 9230 9750 a2360
				Sacramento	River Delta			
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Isleton Bridge	a1990 a850 a334 113 22	3170 a1090 518 150	a2200 a577 a245 72	a754 a388 81 8	a2630 a634 570 153 10	a3240 a1060 a336 124 8	a2220 a671 a406 123 13	a1090 a366 195 13
B9 5020.00   Antioch   B9 5020.10   Antioch   Bridge**   B9 5040.50   Jerey   Island   B9 5060.00   Threemile Slough   False River   B9 5100.00   San Andreas Landing   Dutch Slough   B9 5820.00   Mossdale Bridge	2920 1400 1200 a133 597 a32 218 230	2220 1220 850 ad174 593 143 272	a1460 1325 aod289 a276 a53 a282	81620 1400 8373 8252 8332 61 8353 255	892 a56 391 242	a2160 1325 a300 adl 34 a60 a356 a239	al 310 1530 938 a244 a349 a42 a338 284	a1820 1470 a511 a269 a427 a66 a392 268

<sup>\*</sup>Samples taken at four-day intervals approximately one and one-half hours after high high tide
a Taken after low high tide
b Taken on following day
c Taken two days later
d Taken over one hour off scheduled time
f Taken two days earlier
Chloride values computed from conductivity recorder

				August	1966			
Station	2	6	10	14	18	22	26	30
80 3100.90 Crockett 80 3300.10 Martinez 80 3200.90 Port Chicago 80 3200.00 Middle Point 89 1070.10 Pittsburg	9700 48380 42240	14000 7180 a2550	e13700 a7450 e9430 ad2600	Sutsun 15300 10100 a2190	14100 12000 9200 47800 a1870	13300 8700 7850	e13200 9250 a1740	11400 8950 7080 1910
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Teleton Bridge	3900 1370 492 29 9	a2510 a357 a218 63 9	a2300 e940 a185 88 bd9	a527 a331 105 8	2860 648 236 83 9	a1930 abd230 a176 75 8	a1760 a361 a128 23 12	a153 32 6
B9 5020.00 Antioch B9 5020.10 Antioch Bridge** B9 5060.00 Fraile Slough False River B9 5100.00 San Antress Landin Dutch Slough B9 5820.00 Mossdale Bridge	2380 1270 1130 2220 745 100 377 214	a1610 1090 a525 a314 56 a372 a265	a1330 1480 ad270 a56 a370 a264	Son Joaquin a1200 1260 ad120 a318 a66 a420 272	1870 980 <b>a.1</b> 50 <b>4.7</b> 5 <b>d.61</b> 376 261	e644 1020 e188 e37 e278 e273	a756 750 a84 a207 a35 a242 240	8955 720 8102 256 840 8204 225
				Septemb	er 1966			
Station	2	6	10	14	18	22	26	30
EO 3100.90 Crockett EO 3300.10 Martinez EO 3200.90 Port Chicago EO 3200.00 Middle Point B9 1070.10 Pittsburg	12600 7100 6380 a1300	13700 8300 6700 bd1280	e12100 e5410 a860	Sursu 12100 7180 <b>a</b> 942	n Boy 12900 646760 7320 4845	e10900 e9400 e6500 a1180	10900 7760 6670	14200 a9570 7240 1180
B9 1110.00 Collinsville B9 1140.50 Emmaton B9 1160.00 Threemile Slough Bridge B9 1210.10 Rio Vista Bridge B9 1600.10 Isleton Bridge	1580 440 11 <sup>1</sup> 4 51 11	all90 a350 a67 12 12	all2 a65 20 16	a688 abdlll a57 35 15	River Delto a755 143 a60	a333 all6 a <sup>1</sup> 7 23 10	a724 ad130 a41 18 8	a952 196 46 18 9
B9 5020.00 Antioch B9 5020.10 Antioch Bridge** B9 5040.50 Jersey Island B9 5060.00 Thresaile Slough B9 5100.00 San Antress Landing Dutch Slough B9 5820.00 Mossdale Bridge	898 420 a77 181 a23 197 229	a560 580 a60 a116 28 136 a220	a605 400 a45 a101 a24 ad132 a214	5an Jaaquir 652 300 4 34 106 25 108 228	a 70 23 426	a287 280 a28 a57 a20 a70 a206	a255 225 a58 a49 a17 a64	598 255 118 28 a65 d15 a59 a204

<sup>\*</sup>Samples taken at four-day intervals approximately one and one-half hours after high high tide
a Taken after low high tide
b Taken on following day
c Taken two days later
e Taken on preceding day

\*Selection of the two days earlier
\*Chloride values computed from conductivity recorder

WATER YEAR STATION NO STATION NAME

1966 A 0 2105 Sacramento River at Sacramento Welr

DAY	00	T.	NC	V.	DE	C.	JA	N.	FE	В.	MA	AR.	AF	R.	M.	AY	JU	NE	JU	ILY	AL	JG.	SE	PT.	DAY
	MAX	мім	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	мах	MIN	MAX	MIN	MAX	MIN	
1 2 3 4 5	63 64 63 63	61 62 62 62 62 62	59 58 NR	58 57 NR	NR NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	64 65 66 65 65	62 62 64 64 64	67 67 68 69 69	65 64 65 67 67	70 69 69 69 68	69 68 68 68 67	68 69 70 72 72	66 67 68 69 70	67 68 70 71 73	65 66 68 68 69	1 2 3 4 5
6 7 8 9	63 64 65 64 64	61 62 63 63 63									NR 53	NR 52			66 66 65 65	64 64 64 64 63	68 67 69 69 71	66 65 66 67 68	69 68 68 68 68	67 66 67 67 66	73 71 71 70 70	71 69 69 69 69	72 71 71 71 71	70 69 69 69 69	6 7 8 9
11 12 13 14 15	64 64 64 63 62	62 63 62 61 61									53 53 NR	52 53 NR			64 65 67 67	62 62 65 66 66	71 72 73 74 74	69 69 70 71 72	68 67 68 68 69	66 66 66 66	69 70 70 69 70	68 69 68 67 68	7 0 69 68 67 67	68 67 66 65 65	11 12 13 14 15
16 17 18 19 20	61 59 58 58 58	59 58 57 57													68 69 70 71	66 66 67 68 69	74 74 75 75 73	72 72 72 73 71	69 69 69 70 70	67 66 67 68 68	7 0 69 69 68 67	69 68 68 67 66	68 67 67 68 68	66 66 66 67	16 17 18 19 20
21 32 23 24 25	NR NR	NR NR											NR 58 58 NR	NR 56 57 NR	70 69 70 70 71	68 67 67 68 68	71 68 67 68 69	68 66 65 66 67	71 71 72 71 71	68 69 70 69 68	67 69 68 68 68	65 66 66 67 66	68 69 70 69 68	67 68 68 67	21 22 23 24 25
26 37 28 29 30 31	60 60 59 59 60	59 59 58 58 58 58	NR -	NR -	NR	NR	_	-	NR -	NR -	NR	NR .	NR 61 62 62	NR 59 60 60	71 71 70 68 68 68	68 69 68 66 66	69 70 71 70 71	67 68 69 69 69	71 70 70 70 70 70 68	69 68 68 68 67 65	68 69 68 67 67	66 67 66 66 65	68 68 69 69	66 66 67 67	26 27 28 29 30
AVG	N	R	N	3	N	R	N	R	N	R	N	R	N	3	6	7	6	9	6	8	6	8	6	8	AVG
MAX	NR	NR	NR .	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	71	62	75	64	72	65	73	65	73	65	MAX.

#### YEARLY EXTREMES

MAXIMU	M		MINIM	U M	
TEMPERATURE	MO	DAY	TEMPERATURE	мо	DAY
75E	June	18,19	NR		

	LOCATIO	N	M.	AUMIXA		MINIMUM	PERIOD 0	F RECORD
		1 4 SEC T & R	TEMPERA	TURE OF RECORD	TEMPER	ATURE OF RECORD		
ATTITUDE	TITUDE LONGITUDE	Вам		DATE		DATE	FROM	TO
38 36 09 1	36 09 121 33 12 NE 29 9N 4E		76	July 5, 1965	43	Jan. 3, 1965	Nov. 14, 1964	Present

WATER YEAR STATION NO. STATION NAME

1966 AO 2170 Sacramento River at Fremont Weir, West End

DAY	00	T.	NC	V.	DE	C.	JA	N.	FE	B.	M	AR.	Af	PR.	M	AY	JU	NE	JU	LY	AL	JG.	SEF	ч.	DAY
	MAX	MIN	MAX	MIN	MAX.	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX.	MIN.	MAX	MIN	MAX.	MIN	MAX.	MIN	MAX.	MIN	MAX.	MIN.	$\Box$
1 2 3 4 5	61 61 61 61 61	61 61 61 61 61	56 56 56 56	56 56 56 56	49 49 49 49	49 49 49 49 48	45 45 45 44 44	45 45 44 44	46 46 47 47 46	46 46 46 47 46	48 49 49 49	48 48 49 49	61 61 61 60 60	60 60 60 60	63 64 66 66 66	62 63 64 65 65	66 66 66 66	65 66 65 65	68 68 67 67 67	68 67 66 66 66	65 67 67 68 68	65 65 66 67 67	64 64 66 67 68	63 64 66 68	1 2 3 4 5
6 7 8 9 10	61 61 61 62 62	61 61 61 61 61	55 55 55 55	55 55 55 55 55	48 48 48 48 48	48 48 48 48 48	45 45 46 46 46	44 45 45 46 46	46 47 48 48 48	46 46 48 48 48	49 49 50 51 52	49 49 49 50 51	61 61 61 61 60	60 61 61 60 59	65 66 66 66	65 65 65 66 66	65 64 65 66 67	64 64 64 65 66	67 66 66 65 65	66 65 65 65	68 68 68 68 69	67 68 68 68 68	68 68 68 68 68	68 68 68 68	6 7 8 9
11 12 13 14 15	62 62 62 62 61	61 61 62 61 60	55 55 55 55 54	55 55 55 54 54	48 48 48 48 48	48 48 48 48 48	46 46 46 46 46	46 46 46 46 46	48 48 48 48 48	48 48 48 48 48	52 52 52 54 55	52 52 52 52 52 54	59 59 58 57 57	59 58 57 56 56	66 66 67 68 67	66 66 66 68 67	68 68 69 70	67 67 68 68 69	65 65 65 65 65	65 65 65 65 65	67 67 67 67 67	67 67 67 67 67	68 67 66 66 66	68 67 65 65 65	11 12 13 14 15
16 17 18 19 20	60 59 58 56 56	59 58 56 56 56	54 54 54 55 55	54 54 54 54 54	48 47 46 46 46	47 46 46 46 46	46 46 46 46 46	46 46 46 46 45	48 48 49 49 50	48 48 48 49 49	55 55 54 52 52	55 54 52 52 51	60 61 61 62 62	58 60 61 61 60	66 66 67 68 68	66 66 66 67 67	70 70 71 71 71	70 70 70 70 69	65 65 66 66 66	65 65 65 65 66	67 67 67 67	67 67 67 67 67	65 65 65 66	65 65 65 65 65	16 17 18 19 20
21 22 23 24 25	56 56 56 56 56	56 56 56 56	55 54 54 53 52	54 54 53 52 52	46 46 45 44 45	46 45 44 44 44	45 45 44 45 46	45 44 44 44 45	50 50 51 51 50	50 50 50 51 50	52 52 52 52 52 54	52 52 52 52 52 52	60 59 59 60 63	59 58 58 59 61	68 68 67 67 68	68 67 67 67 67	69 67 66 65 66	67 66 65 65 65	66 67 67 67 67	66 66 66 67 67	66 66 66 66	66 66 65 65 65	66 66 65 65	65 66 65 65 65	21 22 23 24 25
26 27 28 29 30	56 56 56 56 56	56 56 56 56 56	52 51 50 50 50	51 50 50 50 49	44 45 45 45 45	44 44 45 45 45	46 46 46 46 46	45 45 45 46 46 46	50 50 48 -	50 48 48	55 56 57 58 59 60	54 55 56 57 58 59	63 63 62 62 62	62 62 62 61 61	68 68 68 68 67 66	67 68 68 67 66 65	67 68 68 68 68	66 67 67 68 68	67 67 67 67 67 66	67 67 67 67 66 65	65 65 65 65 65	65 65 65 65 64 63	65 65 65 65 65	65 64 65 65 65	26 27 28 29 30 31
AVG.	5		5	4	4	,	4	5	4	8	5	2	6	0		6	6	7	6	6	- 6	6	6	6	AVG.
MAX. MIN.	62	56	56	49	49	44	46	44	51	46	60	48	63	56	68	62	71	64	68	65	69	63	68	63	MAX.

#### YEARLY EXTREMES

MAXIMU	M		MINIM	UM	
TEMPERATURE 71	мО. June	0AY 18-20	TEMPERATURE 44	MO. Dec Jan	DAY 23-27 3-6,22-2

LOCATIO	N	,	MUMIXAM	11M	NIMUM	PERIOD C	F RECORD
	1 4 SEC T. & R	TEMPER	ATURE OF RECORD	TEMPERATI	URE OF RECORD		
	В & м.		DATE		DATE	FROM	т0
121 39 59	NW 32 IN 3E	72	July 5, 1965	44		June 23, 1965	Present
	LONGITUDE 121 39 59	LONGITUDE 1 4 SEC T. & R B & M. 121 39 59 NW 32 IN 3E	LONGITUDE	1 4 SEC T. & R   TEMPERATURE OF RECORD	1 4 SEC T. & R   TEMPERATURE OF RECORO   TEMPERATE	LONGITUDE         1 4 SEC T. & R B & M.         TEMPERATURE OF RECORO         TEMPERATURE OF RECORO           121 39 59         NN 32 1N 3E         72         July 5, 1965         44	1 4 SEC T. & R   TEMPERATURE OF RECORO   TEMPERATURE OF RECORO   FROM

WATER YEAR STATION NO STATION NAME

1966 A 0 5135 Feather River at Yuba City

DAY	00	CT.	NC	OV.	DE	EC.	JA	AN.	FE	В.	M	AR.	A	PR.	M	AY	JU	NE	JL	ILY	Al	JG.	SEI	PT.	DAY
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
1 2 3 4 5	62 62 62 62 62 62	62 62 62 62 62 62	58 58 57 56 57	58 57 56 56 56	NR	NR	NR	NR NR	NR NR	66 68 69 71 73	65 66 67 68 70	75 76 76 78 78	73 74 74 75 76	80 81 80 82 81	75 77 77 78 78	72 74 77 77 78	70 71 73 73 74	1 2 3 4 5							
6 7 8 9	62 63 63 64 63	62 62 63 63	57 57 56 56 56	56 56 56 56											60 60 59 60 59	59 58 58 59 58	72 71 73 75 75	68 67 71 73 73	78 73 73 73 76	74 70 68 70 71	83 83 82 81 81	79 79 79 78 77	77 74 72 73 73	73 70 68 69 70	6 7 8 9
11 12 13 14 15	63 63 63 63 63	63 63 63 63 62	56 56 56 56 56	56 56 56 55											60 61 61 61 62	58 58 59 59 60	74 73 75 80 83	72 72 72 75 79	75 74 74 73 75	72 70 71 70 71	79 78 77 77 79	75 74 75 74 75	72 70 69 69	68 68 65 65	11 12 13 14
16 17 18 19 20	62 60 59 59 59	60 59 58 58 59	55 55 NR	55 54 NR								1 1			63 65 66 67 69	60 61 62 64 65	81 79 80 81 79	79 77 77 77 75	75 75 77 78 79	72 70 72 74 74	79 82 80 79 77	76 77 77 75 73	71 71 71 71 71	67 69 69 68 69	16 17 18 19 20
21 22 23 24 25	59 59 59 59	59 59 59 59													67 67 69 72 72	64 63 64 67 68	75 71 72 73 75	69 67 69 70 70	79 81 81 79 78	75 77 77 75 75	78 76 77 75 72	73 72 73 72 70	71 71 71 71 71 69	68 69 68 68 67	21 22 23 24 25
26 27 28 29 30 31	59 59 59 59 59 59	59 59 59 59 59 58 58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR.	NR	NR	72 72 72 69 66 67	69 69 68 66 64 66	78 81 82 77 78	74 76 77 74 71	79 78 78 77 77 77	75 75 74 74 70 69	72 74 76 72 69 70	68 69 72 68 67 66	71 70 71 72 71	67 67 67 68 69	26 27 28 29 30 31
AVG		1																4		5	7	6	7	0	AVG
MAX	64	58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	83	65	81	68	83	66	78	65	MAX.

#### YEARLY EXTREMES

MAXIMU	JM		MINIMI	J M	
TEMPERATURE	MO	DAY	TEMPERATURE	мо	OAY
83E	June	15	NR		
	Aug.	6,7			

	LOCATIO	И	м	AXIMUM	MI	NIMUM	PERIOD (	OF RECORD
		1 4 SEC T & R	TEMPERA	TURE OF RECORO	TEMPERAT	URE OF RECORO		
LATITUOE	LONGITUOE	B & M		OATE		DATE	FROM	70
39 08 20	121 36 17	SE 23 15N 3E	89	July 29, 1964	38	January 1965	July 22, 1964	Present

Station located at Sacramento Northern Railroad Bridge. From May 5, 1966 to September 30, 1966 station relocated 1,000 feet upstream.

WATER YEAR	STATION NO	STATION NAME	
1966	A 0 5177	Feather River at Sutter Butte Canal Company Intake near Gridley	

DAY	00	T.	NO	٧.	DE	C.	JA	N.	FE	В.	M	AR.	Al	R.	M.	AY	JU	NE	υU	LY	AL	JG.	SE	PT.	DAY
	MAX.	MIN	MAX	MIN	MAX	MIN	MAX	MIN.	MAX	MIN	MAX	MIN	MAX	MIN	MAX.	MIN.	MAX	MIN	MAX	MIN	MAX	MIN	MAX.	MIN.	
1	62	61	55	55	45	45	43	43	43	43	46	46	54	52	54	5 <b>3</b> E	62	61	70	69	73	71	69	67	1
2	62	61	55	55	45	45	43	42	43	43	46	45	54	53	55	54E	61	60	70	68	74	72	69	67	2
3	62 62	61	55	55 55	45	45	42 42	42	43	43	46 45	45	53 53	52 52	55 56	54E 53	61 61	59 59	69 70	68 68	75 76	74	69 70	67 67	3 1
5	62	61	55	55	45	45	45	42	44	43	44	44	53	52	56	55	60	59	70	68	76	74	71	68	5
6	62	61	56	56	45	45	45	45	45	44	45	44	53	52	55	54	60	58	70	68	76	74	70	68	6
7 8	63 63	62 62	55 55	55 55	45	45	45	44	45	45	45 46	45	53 53	52 52	55 55	54 54	60 61	58 59	70 69	68 68	75 75	74	70 69	68 67	7 8
8	62	62	55	55	44	44	44	44	44	44	46	46	52	52	55	55	64	61	69	68	75	73	70	68	9
1D	62	61	55	54	44	44	44	44	44	44	47	46	52	50	55	54	65	62	69	68	75	73	70	67	10
11	62	61	54	54	44	44	44	44	44	43	47	46	50	48	55	54	65	63	70	68	74	73	69	67	11
12	61 61	61 61	54 54	54 54	44	44	44	43	43	43	46 47	46 47	48 48	48E	56 57	54 55	65 67	64 64	69 69	67	74 74	72	68 67	66 65	12
14	60	60	54	54	44	44	42	42	42	42	47	47	49	48E	57	56	68	66	69	67	74	72	66	64	14
15	60	59	53	53	44	43	43	43	42	42	47	47	50	49E	57	56	68	67	68	67	74	73	66	64	15
16	59	58	53	52	43	42	43	43	42	42	47	45	52	50E	58	56	69	68	68	67	74	72	66	64	16
17	58 57	57	52 52	52 52	42	42	43	43	42	42	47 45	45 45	52 52	52E 52E	58 59	57 58	70 71	68	69	67 68	75 75	73 73	66 66	64 65	17
19	58	57 57	52	50	42	41	43	42	44	43	46	45	52	49E	60	58	72	70	70	68	75	73	67	65	19
20	58	58	50	50	41	41	42	41	45	44	47	46	50	48E	61	60	71	69	70	69	74	72	67	65	20
21	58	58	50	50	41	41	41	41	45	45	47	46	50	48E	62	60	69	67	72	71	74	72	68	66	21
22	58 58	58	50	50 50	41	40	41	41	45	45	48	47	52	50E 52E	61	60	68	66	73	71	74	72	67 68	66	22
24	57	57 57	50	50	40	41	41	41	46	45	49 50	49	53 54	50E	62 62	60	68 67	66	73	72	73	72	68	66 66	24
25	57	57	50	48	41	41	42	42	47	46	50	49	55	5 3E	63	61	68	65	72	71	72	70	68	66	25
26	57	57	47	46	41	41	42	42	47	46	52	50	55	54E	64	62	68	66	72	71	71	70	68	66	26
27 28	57 56	56 56	46	46 45	41	41	42	42	46	46	53 53	51 52	55 54	53E	64	63	70 71	68 69	72 72	71	71 71	69 70	67 67	65 66	27 28
29	56	56	45	45	43	41	42	42			53	52	54	52E	63	62	71	69	72	71	71	68	68	66	29
30	56	56	45	45	43	43	42	42	-	-	53	52	54	52E	63	62	71	69	71	70	69	68	68	66	3D
31	56	55	-	•	43	43	43	42	-	-	53	52	-	-	63	61		-	72	69	68	67	-	-	31
AVG.	5	9	5	2		3		3		4	4	7	5	2		8		5		0		3	6	7	AVG.
MAX	63		56		45		45		47		53		55		64		72		73		76		71		MAX.
MIN.		55		45		40		41		42		44		48		53		58		67		67		64	MIN.

#### YEARLY EXTREMES

MAXIMU	M		MINIM	J M	$\overline{}$
TEMPERATURE	MO	YAO	TEMPERATURE	MO.	DAY
76	Aug.	4,5,6	40	Dec.	22,23

	LOCATIO	N	MA	XIMUM	MIM	IIMUM	PERIOD (	OF RECORD
		1 4 SEC T & R.	TEMPERATI	JRE OF RECORO	TEMPERATU	JRE OF RECORD		
LATITUOE	LONGITUDE	8 & M.		DATE		DATE	FROM	то
		SE 33 19N 3E	87.5	8-10-59	34	1-26-62	7-13-56	Present

Station located on headwall of inlet structure to Sutter Butte Canal.

WATER YEAR STATION NO STATION NAME

1966 8 9 1700 Sacramento River at Walnut Grove

YA	00	CT.	NC	٧.	DE	C.	JΔ	N.	FI	В.	M	AR.	Al	PR.	M	AY	JU	NE	JL	JLY	AL	JG.	SE	PT.	DA
	мах	MIN	мах	MIN	MAX	MIN	MAX	MIN	МДХ	MIN	MAX	MIN	MAX	MIN	мах	MIN	MAX	MIN	MAX	MIN	мах	MIN	MAX	MIN	
1	64	64	59	58	56	51	49	44	51	47	53	52	58	56	65	63	70	67	7.3	71	7.3	72	68	67	
2	64	64	59	57	56	50	50	44	51	48	5.3	52	59	56	66	64	69	67	7.2	71	7.3	7.2	67	67	-
3	64	64	58	56	56	49	50	43	51	47	52	51	59	58	68	64	69	66	7.3	7 1	7.3	72	67	67	
4	64	64	57	56	55	49	49	43	50	47	51	50	60	58	68	66	69	66	7.3	71	74	7.2	68	67	
5	64	64	56	56	54	48	48	41	50	47	51	50	59	58	69	66	69	66	73	71	7.5	7.3	69	68	
6	64	64	56	56	54	48	48	43	50	48	51	50	60	58	69	66	70	67	73	71	76	72	70	68	
7	64	64	56 56	56 56	52 52	46	47	45	51	49	51 51	51	60	59 59	69	66	69	66	72	70	76	72	70	69 68	
8	64	64	57	57	52	46	49	46	52	51	52	52	59	58	68	66	69	67	71	69	77	73	70	69	
o	64	64	57	56	51	46	49	47	52	50	52	52	59	58	67	65	70	67	71	69	74	7.2	71	69	
,,	64	64	57	56	51	46	49	47	53	50	52	52	58	58	67	64	71	67	71	7.0	7.5	72	70	69	
3	64	64	57	55	51	46	49	47	53	50	52	52	59	58	67	65	7.3	68	71	70	74	72	70	69	
3	64	64	56	55	52	47	49	47	53	50	5.2	52	58	58	68	65	73	68	73	69	7.3	7.2	69	69	
4	64	64	57	55	52	48	50	46	54	50	52 52	52	58 58	58 58	68	65	76	69 70	71	69	72	70	68	68	
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6	64	63	57	55	51	46	50	46	53	50	52	52	59	58	68	65	78	71	71	69	72	70	69	69	
7	63	62	56	54	51	45	50	46	52	50	52	52	60	58 60	70	65	78	71	71	70	73	70	69	69 69	
8	62	60 59	57 57	55 55	51 50	43	50	46	52	51	52	52	60	60	71	68	78	72	72	70	73	71	69	68	
ŏ	60	59	57	55	49	43	50	46	53	52	51	51	61	60	74	68	78	73	72	70	72	71	69	68	ı
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2	60	59	58	54	48	41	49	45	53	52	51	51	61	60	74	68	74	7.2	74	71	71	70	69	68	1
3	59	59	56	5.3	48	41	49	45	53	53	51	51	60	60	7.3	68	7.3	71	74	72	71	7.0	69	68	1
4	59	59	56	52	48	40	49	45	52	52	51	51	61	60	74	69	71	69	7.5	7.2	71	7.0	69	69	
5	60	60	56	52	48	41	50	47	53	53	52	51	63	61	74	68	71	69	75	7.2	7.0	69	69	69	
6	60	60	56	51	48	42	50	47	5.3	53	53	52	64	62	74	69	71	69	7.5	7.2	7.0	69	69	69	
7	60	60	56	52	48	42	50	47	5.3	5.3	53	52	64	62	7.5	69	7.2	69	7.5	7.2	69	68	69	69	
8	60	60	56	51	48	42	50	47	53	53	53	53	64	62	7.4	69	72	70	7.5	7.2	69	68	69	69	
9	60	60	56	51	48	43	50	47	-	-	54	53	64	62	73	68	7.3	70	74	72	69	68	69	69	-1
. 0	60	59	55	50	48	44	51	48	1 -	-	55	54	64	63	7.2	68	7.3	7.0	74	7.2	68	68	68	68	
1	59	59	-	-	49	44	51	48	-	-	56	55		-	72	68	<u> </u>		73	71	68	67	-	-	+
G.		2		6		8		8	.,	11	1	12		0		8	79	1	7.5	72	77	2	71	9	1
AΧ	64		59		56		51	7.3	54	1.7	56	5.0	64	56	75	63	/9	66	75	69	"	67	/ 1	67	1
IN		59		50		40		41		47	1	50		26		0.3		66		09		0/		07	1

#### YEARLY EXTREMES

MAXIMU	M		MINIMUM							
TEMPERATURE	MO	DAY	TEMPERATURE	MD	DAY					
79	June	18	40	Dec.	24					

	LOCATION	4	MAXI	MUM		MUMINIM	PERIO	D DF RECORD
		1 4 SEC T & R	TEMPERATUR	RE OF RECORD	TEMPERA	ATURE OF RECORD		т0
LATITUDE	ITUDE LONGITUDE B & M			DATE		DATE	FROM	10
38 14 22	121 30 57	SW35 5N 4E	79 79 for many	days	40	12-24-65	1-15-64	Present

WATER YEAR STATION NO STATION NAME

1966 B 9 5340 Old River at Clifton Court Ferry

DAY	00	T.	NC	V.	DE	C.	JA	N.	FE	В.	M	AR.	AF	R.	M	AY	JU	NE	υt	LY	AL	IG.	SEF	ग.	DAY
	MAX.	MIN	MAX.	MIN	MAX	MIN.	MAX.	MIN.	MAX.	MIN	MAX	MIN	MAX	MIN	MAX	MIN.	MAX	мін	MAX.	MIN	MAX	MIN.	MAX.	MIN.	
1 2 3 4 5	61 61 61 61 64		NR NR NR NR		51 50 50 50 50		48 48 47 47 46		50 50 50 50 50		53 51 50 49 49		62 66 66 66 67		64 65 66 69 68		NR NR NR 67 68		76 72 72 72 74		75 78 78 78 78		67 68 70 75 75		1 2 3 4 5
6 7 8 9	68 69 69 69		NR NR 61 58 57		50 50 50 50 50		47 48 48 50 50		50 50 50 50 50		52 53 55 53 55		68 68 68 67 65		68 69 69 68 67		69 67 68 68 67		74 73 71 73 73		79 80 80 80 80		73 74 74 74 77		6 7 8 9
11 12 13 14 15	68 68 67 66 63		57 55 NR NR 54		49 49 49 49		50 50 49 49		45 47 47 45 45		56 58 59 60 59		63 62 62 62 62 65		67 68 NR NR		66 69 71 75 81		73 71 69 69 69		80 80 79 78 78		75 71 69 66 66		11 12 13 14 15
16 17 18 19 20	58 57 59 60 61		55 56 56 56		48 48 45 45		49 48 48 48 47		45 46 47 48 49		59 59 58 59 61		68 68 67 63 62		NR NR NR NR		83 81 80 80 82		72 71 72 74 73		78 79 79 79 76		69 69 70 70 70		16 17 18 19 20
21 22 23 24 25	62 62 62 62 63		57 57 57 NR NR		44 44 43 43		46 46 46 45 45		50 51 53 53 54		57 55 54 55 57		63 65 65 68 70		NR NR NR NR		78 72 72 72 72		73 76 78 78 76		76 76 76 75 73		70 NR		21 22 23 24 25
26 27 28 29 30 31	62 64 64 63 62 61		NR NR NR NR		44 45 45 45 46 48		45 45 45 47 47 48		54 53 53 - -		58 58 58 58 60 60		67 65 64 64 64		NR NR NR NR NR		72 73 75 78 76		77 77 76 76 75 73		72 70 73 71 67 65				26 27 28 29 30 31
AVG.	63		-		47		47		49		56		65		-		-		73		76				AVG.
MAX. MIN.																									MAX.

All Figures picked from chart at HH tide.

#### YEARLY EXTREMES

	MAXIMU	J M	$\overline{}$	MINIMUM							
Г	TEMPERATURE	MO	DAY	TEMPERATURE	MO.	DAY					
	83E	June	16	43E	Dec.	24,25					

	LOCATIO	N	M A	XIMUM	MIN	IMUM	PERIOD (	OF RECORD
		1 4 SEC T. & R.	TEMPERATI	URE OF RECORO	TEMPERATU	RE OF RECORO		
LATITUOE	LONGITUDE	В & м		OATE		DATE	FROM	70
37 49 28	121 33 05	SE 20 1S 4E	83	July 25, 1964	43		10-18-63	Present

Station located approximately 2,000' below junction with Grant Line Canal.

WATER YEAR STATION NO STATION NAME

1966 B 9 5620 San Joaquin River at Rindge Pump

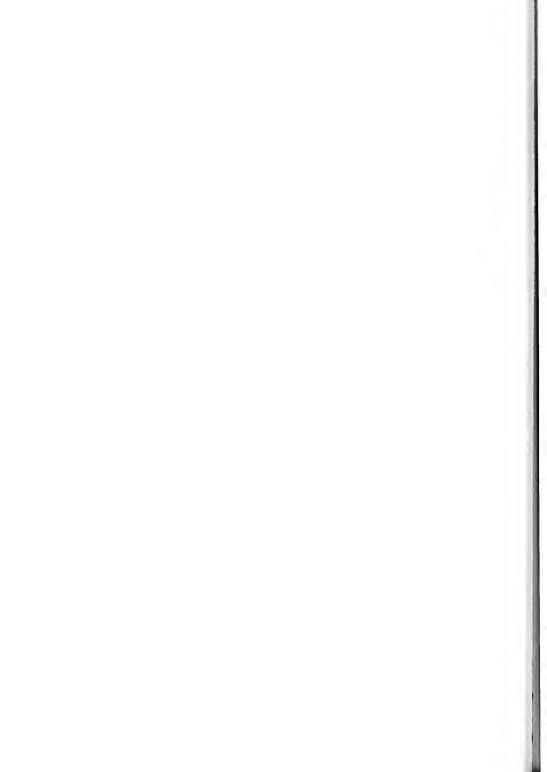
DAY	00	CT.	NC	V.	DI	EC.	JA	N.	FI	В.	M	AR.	Al	PR.	M.	AY	JU	NE	JU	ILY	AL	JG.	SE	PT.	DA
	хам	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	мах	MIN	мах	MIN	МДХ	MIN	MAX	MIN	
1	7.0	67	68	66	56	54	44	44	47	46	61	60	66	62	69	66	72	70	81	7.7	83	78	7.5	71	
2	7.0	68	68	65	54	52	44	44	48	47	59	57	66	63	7.0	67	71	69	80	76	84	7.8	7.8	72	2
3	69	68	68	65	52	51	45	45	48	4.8	59	57	65	63	71	69	74	69	80	7.5	84	79	7.8	7.3	3
4	69	68	68	67	52 52	52	45	45	48	48	58	58	63 67	62	70	67	73	7.0	81	76	85	79	78	74 75	- 4
5	68	67	67	67	32	52	47	45	48	48	57	56	6/	63	70	67	14	70	80	76	85	79	79	/5	5
6	7.0	68	68	66	52	51	45	44	50	49	60	57	65	63	71	68	7.1	70	80	75	84	80	7.7	7.5	6
7	73	68	67	66	51	50	47	45	50	49	61	60	65	63	71	67	7.3	68	80	7.5	84	80	76	74	7
8	72	70	66	66 64	50	49	51	46 50	50	49	61	60 59	66 64	63 63	71	68	74	69	79	74	84 84	81	77	72 74	8
10	70	69	67	65	49	48	51	50	51	50	61	59	64	63	69	67	75	71	78	72	83	81	76	74	9
		0,	0.	0,5			1		- 1					0.5	0,	0,	1	/ h	/ /	/ -	0.5	01			10
11	71	69	65	65	48	47	51	50	51	49	62	59	64	63	70	67	76	72	77	73	81	79	74	72	11
12	71 71	69 69	65 65	65 63	48	47	50	50	52 50	50 48	60	59 59	65 66	63	71	67	76	72	76	72	80 79	77	73	71 69	12
14	71	70	64	62	48	46	50	50	50	49	61	59	67	64	70	68	80	75	75	72	81	76	72	69	13
15	70	67	62	62	47	46	50	49	51	50	62	60	69	64	71	68	80	77	7.6	72	82	77	73	69	15
16	68	63	62	62	48	46	50	48	53	52	62	61	69	66	72	68	80	78	76	7.2	83	77	74	69	16
17	66	60	62	62	47	45	49	48	52	52	61	59	69	67	71	69	82	7.8	7.6	7.2	83	/8	77	7.2	17
18	66	63	63	63	47	45	48	47	52	52	61	60	66	65	74	71	84	79	77	7.3	83	7.8	74	72	18
19	65 65	64	63 62	62 62	45	44	47	47	54	52 54	61	60	65 66	64	75 77	72	84	80	78	74	82 82	78	73	70 71	19
20	60	63	62	62	1414	43	47	43	34	34	- 61	60	60	64	l ''	/3	04	80	/9	74	82	//	/3	/1	20
21	65	64	62	62	44	43	46	45	56	54	59	58	66	64	77	73	80	7.7	80	7.5	80	76	74	7.0	21
22	65	64	63	62	43	42	45	45	57	56	60	58	66	63	76	73	78	7.5	80	75	79	7.5	74	72	22
23	66	64	63	62	41	40	45	45	61	57 59	62	57 59	68	63	76 76	73	77	75	82	76	77	75	73	72	22
25	66	65	62 61	61 60	42	41	46	45	61	59	62	60	69	65 66	76	74	77	74	83	77	76	74	73	72 71	24
1		00												- 00											23
26 27	68	67	61	59	42	42	45	45	59	57	64	59	69	66	77	74	79	75	83	77	74	73	74	72	26
28	68	67 66	59 57	57 56	42	42	45	45	62	59 60	63 64	60 59	66 66	63	77 77	75 74	82 81	77 78	80	77	76 78	72	74	72	27
29	68	67	56	55	43	42	45	44	- 01	-	63	60	66	65	75	74	81	78	81	78	75	71	77	74	29
30	69	66	57	55	43	43	45	44	-	-	65	61	68	65	75	73	81	77	80	7.8	72	70	76	74	30
21	69	66	-	-	44	43	46	45	-	-	65	61	-	-	74	72	-	•	81	77	72	70	-	~	31
VG.	6	8	6	3	4	6		7		2	6	0	6	5	7	2		6	7	7	7	8	7	4	AVG
AAX	73		68		56		51		62		65		69		77		84		83		85		79		MAX
MIN.		60		55		40		44		46		56		62		66		68		72		7.0		69	MIN

#### YEARLY EXTREMES

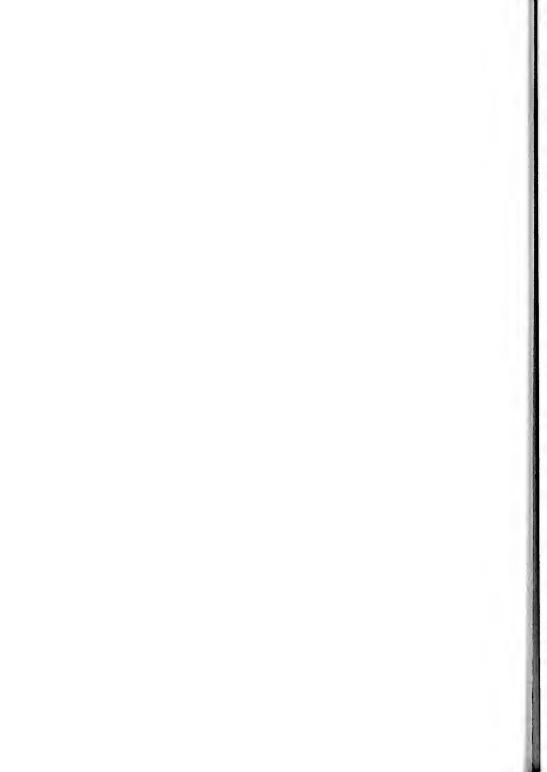
	MAXIM	UM	_	MINIM	U M	
TEME	PERATURE	MO	DAY	TEMPERATURE	MO	DAY
	85	Aug.	4,5	40	Oec.	23,24

	LOCATIO	N	MA	KIMUM	MI	NIMUM	PERIOD (	OF RECORD
		1 4 5EC T & R	TEMPERATI	JRE OF RECORD	TEMPERAT	URE OF RECORD		
LATITUDE	LONGITUDE	B & M		DATE		OATE	FROM	то
37 59 51	121 25 06	NW 27 2N 5E	85	8-4,5-66	40	12-23,24-65	1-7-65	Present

Station located on Rindge Tract at Fourteen mile Slough near junction with Stockton Ship Channel, 8 mi. N.W. of Stockton



# APPENDIX E GROUND WATER QUALITY



#### INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from a number of major ground water sources in Northeastern California in cooperation with other state, local, and federal agencies. During the 1966 water year, 232 wells were sampled in 15 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Waste Water", 12th Edition, American Public Health Association, New York, N. Y.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurement".

#### INDEX OF MONITORED AREAS

### CENTRAL VALLEY REGION (No. 5)

Number	<u>Basin</u>	Page
5- 1.00 5- 2.00 5- 4.00 5- 5.00 5- 6.00 5- 7.00 5- 9.00 5-10.00 5-11.00 5-21.01 5-21.02 5-21.04 5-21.05 5-21.08 5-21.08 5-21.09 5-22.00 5-22.01	Goose Lake Valley Alturas Basin Big Valley Fall River Valley Redding Basin Lake Almanor Valley Indian Valley American Valley Mohawk Valley Sierra Valley Sacramento Valley Tehama County Glenn County Colusa County Sutter County Sacramento County Yolo County Yolo County San Joaquin Valley San Joaquin County	128 129 130 131 134 135 136 136 142 142 143 146 146
	LAHONTAN REGION (NO. 6)	
6- 1.00 6- 2.00 6- 3.00 6- 4.00 6- 5.01 6- 5.02 6- 6.00 6- 7.00 6- 8.00 6-67.00	Surprise Valley  Madeline Plains  Willow Creek Valley  Honey Lake Valley  South Tahoe Valley  North Tahoe Valley  Carson Valley  Topaz Valley  Bridgeport Valley  Truckee Valley	149 150 150 151 148 153 154 154 155

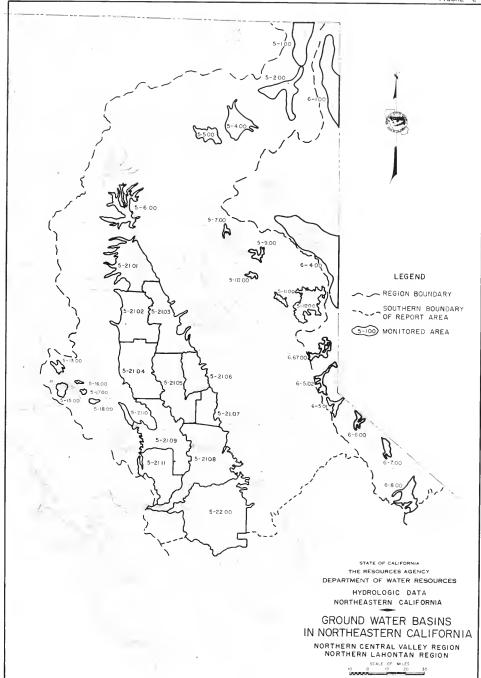


TABLE E 1

MINEMAL ANALYSIS OF GROUND WATER

STATE WELL NUMMER DATE	7 3 0	1 ×	سا در خ ط	MINFRAL CONSTITUENTS IN	L CONS	TITUEN	IS I	MILLI	MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PERCENI REACTANCE VALUE	EN LIT	ER R LITE VALUE	α	MIL	LIGRA	MILLIGRAMS PER	œ	1
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	1	;	1 6	;	:	;	:	:	:	:	:	19	:	;	:	:	1
	;	:	1 4	;	;	:	:	:	:	:	;	:	9 <b>.</b> 6	9°8	:	:	1
	1	e e	366	38 1.90	1.15	23.2	1.6 .04 1	10	193 3•17 83	2.3 .05 1	.12	5.5 .0.7	;	0 * 0	:	201	151
	1	:	305	:	:	ŀ	;	;	;	:	;	:	;	:	:	:	:
	1	1	236	:	;	;	1	:	:	:	:	:	:	:	:	;	1
	1	û	176	15	6.2 .51 28	1 4 5 4 4 5	.10	0.0	91 1.49 89	0.6	5.7 •16 10	1.1 .02 1	;	0.0	:	153 87	e 0
	1	e.	443	1.0	.01	3.70 9.8	1.1 .03	0.0	129 2.12 54	36 •75 19	38 1.07 27	.02	:	2.2	i	303	9
	1	ŀ	- 651	:	:	:	:	:	;	:	:	:	:	t .	:	:	1
	;	c œ	4 8	5.5 5.74 5.5	21 1•73 34	0 • • 4 x w 0	.12	0 • 0	233 3.82 77	.35	8.1.9	.60 12	;	0.1	:	309	34
5-2.00																	
	:	· •	227	:	:	34	:	:	:	:	13	:	;	:	:	:	4 4 00 00

MINEHAL ANALYSIS OF GROUND WATER

*	, 3	9 J	EC LAB	MINFRA	יר כפאי	MINERAL CONSTITUENTS IN		MILLI MILLI PERCE	GRAMS EQUIVA NT REA	MILLIGRAMS PER LITFR MILLIEGUIVALENT PEW LITER PERCENT REACTANCE VALUE	FFR FR LITE VALUE	œ.	ž	LIGRAN	MILLIGRAMS PER LITER		Į
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42N/11E-19En1 M 19/20/66	;	π.	472	2.8 1.	0	99 1.31 92	8.5 .22 .5	.32	220 3.61 76	31 •64 13	.20	0.2	:	0.1	:	334 266	٥ م
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TABLE E 1

MINEHAL ANALYSIS OF GROUND WATER

LITER TDS TH SUM NCH	150	;		;	;	;	;	;		; ;	:	:
MILLIGHAMS PER LITER TDS B \$102 SUM	:	i	;	:	;	;	ŀ	;		;	:	;
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MILLIGHAMS PER LITER MILLIEGUIVALENT PER LITER PERCENT REACTANCE VALUE 103 HC03 S04 CL N	38	;	80.	1.35	;	;	;	1		;	ì	;
S PER L	;	:	;	ŀ	;	;	;	;		;	;	ï
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FLAX FLOX	1	1	:		1		1	1		;	;	;
7F MP 5-4.00	٠ ٣	7	6.2	R. O.	;	;	ር የ	1	5-5.00	5.5		5.3 F
STATE WELL NUMBER DATE LA? TIME SAMPLER BIG VAILEY	38N/07E-02P01 M 08/04/65 5050	38N/A75-23001 M 08/04/66 5050	38N/08E-17K01 4 08/04/66 5050	38N/09E-30R01 M 08/04/66 5050	38N/09E-21L0] 4 08/04/66	39N/07E-13001 ™ 08/04/65	39∿/07€-14R01 M 08/04/66 5050	39N/09E-28F0] ₩ 68/04/46	FALL RIVER VALLEY	37N/05E-01C∩1 ↔ 08/03/66 5050	37N/05E-14R01 M ∩8/03/66 5050	37N/05E+24F01 M

	α i S i S		27.	;	:		1	6 0	156	20	4 6	20	;
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MILLIGRAMS PER LITER	LEGUIVA ENT REA HCO3		;	;	:		;	116 1.90 89	145 2.38 61	98 1.61 93	168 2.76 77	1 8 4 5 8 8	;
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	STATE MELL WIMMEN OATF LANDING SAMPLES	FALL RIVER VALLEY	37%/∩6F-19L01 ™ ∩8/03/66 50≤∩	37NZA6E-29BJ] ⋈ 88Z83ZA6 5890	38/7/3€=24FU} <sup>™</sup> ∩8/03/55 50≤0	REDDING BASIN	29N/144=12PN1 4 67/25/56	29N/14x=15EN1 4 68/18/66 5050	2907,04w=15P02 4 68/18/66 5050	29N/04W=19401 M 08/18/86 5150	29N/N5*=N7492 4 N8/14/66 505N	290/05%-09401 68/18/66 5050	30×103×-14×01 "

MINERAL ANALYSIS OF GROUND WATER

1 1 0 1 7	94	132	7.87 0	136	:	m 0	55	<b>4</b> 0	:	:	:	37
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MILLIGRAMS PER LITER MILLIGULVALENT PER LITER PERCENT REACTANCE VALUE 03 HC03 S04 CL N	105	182 2.98 84	78 1.28 87	162 2.66	:	1.08 86	1.16	68 1,12 89	;	1	;	1.26
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STATE WELL WINNERS DATE LA* TIME SAMPLES	30N/03#-04M01 4 08/24/66 5050	30N/03*-21A0] / NB/29/66 5050	30N/03*-79K01 M 08/29/66 5050	30N/03w-34801 M F7/24/66 5050	30N/04*-01E01 ™ 07/26/66	30N/04*-02E01 M 08/19/66 5050	30N/04=14(10) 4 08/13/66 5050	30N/04*=14603 M 08/19/66 5050	30N/14w-16J01 M n7/26/66 5090	30N/05w-15801 ~ 07/26/66	30N/05*=17801 "	30N/05*-17401 ** 08/22/66 5050

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TABLE E 1

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MINERAL ANALYSIS	

5-6.00  7-6	STATE WELL NUMMER DATE LAM TIME SAMPLER	TES SP	P L D F L D	EC LAB	MINEPA Ca	L CONS	MINEPAL CONSTITUENTS IN CA MG NA K	ST X	MILL MILL PERCI CO3	MILLIGRAMS PER LITER MILLIGOLIVALENT PER LITER PERCENT REACTANCE VALUE 03 HCU3 SO4 CL NO	PER LI LENT P CTANCE SO4	TER ER LITI VALUF CL	. R	Σ Σ	LL 16PA	MILLIGRAMS PER LITER TOS 8 SIO2 SUM	LITER TOS SUM	I O
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INDIAN VALLEY

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TABLE E 1

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PER LITER TOS TH 2 SUM NCH	21	28	0	53	<b>9</b> 9 0	3 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	106	1 g		53	108
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#F.L.L L. S.A.M.	COUNTY	23\/02*~05401 × 08/15/66	23N/03W-22W01 4 08/15/66 5050	23V/n3W-35901 M n8/15/66	24N/02#=30C01 M 08/15/66	74∿/∩3*-∩3P∩  ™   	74N/03w-04k01 ⋈ ∩8/15/66	24N/13w-14M01 ≥ 18/15/46	24N/03w-20N01 -
STATE DATE	TEHAMA COUNTY	23~/02#=( ^8/15/66	23×70	23V/03#-	24N/02%-	24N/0	24N/03W-	74N/13W-	24×1/03×-

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генама социта	7-51.01																
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25N/02w-04M01 M 08/16/66	:	:	282	;	:	;	;	:	:	:	:	;	;	:	:	;	:
25N/02w-∩7K01 ™ ∩8/16/66	;	;	1 9 6 9	;	:	;	;	;	:	;	:	;	;	;	;	;	;
75N/03*=03N01 4 08/16/66	;	:	390	;	;	:	:	;	;	;	:	;	;	;	:	:	:
25N/03*-31Rn  4 ∩8/15/46 5050	7 05	r C	507	5.79 5.79	23 1.89 36	52 10	0.7	0.0	217 3.56 68	36 .75 14	1, 4,8	9, 30	:	0.	:	284 281	235 7.2
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26N/N3W-22G01 M N8/16/66	:	:	142	;	i	:	;	:	:	;	:	;	:	;	:	;	:
26N/∩4x-10D01 ™ ∩8/14/60	:	:	37.1	:	:	;	:	;	:	:	:	:	;	:	:	;	;
27N/03W-10401 4 (8/15/66	:	:	568	:	;	:	:	;	;	;	;	:	;	;	:	;	:
27∿/n3∿-15Col ™ n8/16/46 505n	X X	7.	243	1.35	1.15 38	52.	.04	0.0	142 2.33 77	8	65.	- 5. 6. 6.	:	0.1	:	194	124 B
27N/n3#=194u1 % r8/15/65	;	:	1 5	:	:	;	:	:	:	;	:	:	:	:	:	:	:
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TABLE E 1

MINEHAL ANALYSIS OF GROUND WATER

	Į,		246	:	284	:	361	173	:	;	;	;	153	:
LITER	S O S		421 413	;	568 525	:	470 435	280	;	:	:	:	209	:
IS PER	S102		:	;	:	:	:	:	;	;	:	;	;	
MILLIGRAMS PER	œ		0.2	;	0.1	;	0.2	0.1	:	;	:	;	0.1	:
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œ.	E 0N		6.8 .11	:	0 7 ° 8	:	3.1 .05	6.4 10 2	;	:	:	;	931	;
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PERCENI REACIANCE VALUE	, J		288	:	112 3.16 32	:	8.2 23 3	.21	:	:	:	:	5.0 5.17	:
MILLIGRAMS PER LITER MILLIEGUIVALENT PER LIT PERCENT REACTANCE VALUE	504		93 1.93 25	;	25. 52. 3	;	36 • 75 8	30	;	:	:	;	1.2	:
SRAMS FOULVAL	HC03		327 5.36 1	:	324 5•31 54	:	484 49.7 89	265 4.35 82	;	;	:	;	186 3.05 83	:
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IITUEN.	A A		67 2.91 37	:	4.000 4.100	:	37 1•61 14	45 1.96 36	:	:	:	:	15 65 18	;
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7 2 0	:		:	:	1	1	1	;	;	;	;	1	;	
		5-21.02												
STATE WELL NUMMED DATE LAM	SA	GLEIN COUNTY	18N/02W-07FU1 W 07/11/66 5050	18%/03*-10%01 4 07/11/66	18N/04w-n2Fal w n7/11/66 5950	19N792#=06601 M 07/08/66	19N/02*-23N01 4 07/11/66 5050	19N/03w-09J01 M 67/11/66 5050	19W/03w-18P0  J 07/11/66	20×/02×-11401 × 67/08/66	20∿/02*-13401 ™ 07/08/66	20N/93%-02D01 M 07/07/66	20∿/04™-02401 ™ 07/07/56 5050	21N/02w-02001 M

MINEHAL ANALYSIS OF GROUND WATER

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STATE MELL NUMMED		å	ir.	A ANIA	MINERAL CONSTITUENTS IN	STITUEN	ZI SI	MILLI	MILLIGRAMS PER LITFR MILLIEGUIVALENI PER LITER	EN L1	TFR EM LITE	α	ΣIL	LIGRA	MILLIGRAMS PER LITER	LITER	
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21N/02x-15cm1 4 67/08/66	1	:	619	:	:	;	:	:	;	:	:	:	:	:	:	;	:
2]N/03*=42401 07/07/55 5050	;	c x	533	0.00°	25 2.06 37	22 94 17	.02	0.0	240 3.94 73	333	. 76 . 76 . 14	. 35 . 35	;	5.0	:	307	228 31
218/03x=14f01 M 07/07/65	1	;	1 % 1 %	;	:	:	:	:	:	:	:	:	:	;	:	:	1
2]W/A3w-2AB01 4 A7/07/45	1	;	3.42	;	:	:	;	:	:	:	:	:	;	:	:	;	;
22N/01N-29C01 3	;	;	450	;	:	:	:	:	;	;	;	:	:	;	:	;	1
>>N/0>w=03431 √ 07/04/65 5050	;	ĭ.	0 0 0	51 2.54 43	26 2.14 36	1.22 1.22	9.0	0.0	2.77	. 8. 15.	39 1.10 19	. 57 242 16	;	2.0	:	346	234
22N/02W=25H01 4 07/07/65	1	;	, c ,	;	;	:	;	:	;	;	:	;	:	;	:	;	:
72N/∩3w=∩45N] ₩ ∩7/04/+5	;	1	1 7	1	:	:	:	:	:	1	:	;	;	1	:	:	:
77.04/13w=22071	1	;	1 =	;	1	;	:	;	:	;	:	;	:	:	:	;	;
7201130-25411 07101160	;	:	666	:	:	:	:	:	;	;	;	:	;	;	;	:	:
22\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	;	, c	;	;	:	;	;	:	;	:	:	;	:	:	:	;

MINEMAL ANALYSIS OF GROUND WATER

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	g S N.	2015	;	;	;	1	;	1	1	1	1	1	;	;
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		u.	1	;	;	1	;	;	;	1	;	:	:	;
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HER	PER LI	75	:	37	3,16 35	80 2.26 39	1.69	,19 6,18 58	263 7.42 48	:	:	59. 8	5.00 4.00 4.00	.76 .76 8
9 33	CTANCE	80 <b>%</b>	:	7.4 •15	12 .25 3	0.3	4 • 0 • 0 • 1	30.	154 3.20 21	:	;	1.66 21	2.1 .0.4	4 4 6 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
MILLIGRAMS PER LITER	MILLIEGUIVALENT PEH LITER PERCENT REACTANCE VALUE	£001	:	199 3.26 72	318 5,22 59	206 3.38 58	278 4.56 69	228 3.74 35	287 4.71 31	:	:	341 5,59 71	198 3.25 92	463 7.59 81
M	PERC	C03	;	0.0	0.0	0 • 0	0.0	0	0 • 0	1	;	0.0	0 • 0	0.0
	11 S I.N	¥	;	1 • 1 • 0 3 1	10.	.05	1.6	10.0	0.0	:	:	0.1	.04	.11.
	MINERAL CONSTITUENTS IN	۵ ۲	:	40 1.74 34	2.13	3.35 56	35 1.52 22	124 5.39 50	171 7.44 4.4	:	:	13.5 5.66 77	2.4 1.2.4 3.4	2.0° 5.0° 5.0° 5.0° 5.0° 5.0° 5.0° 5.0° 5
	L CON	5	;	1.48	3.73	1.48 1.48	35.88	41 3.3/ 31	59. 4.85 31	:	:	10 11	71 66°	3.29
	MINER!	CA	:	1.35	3.09 4r	1.15	2.35 35	40 2.00 19	3.19	:	;	, #5 17	1.30	2. 5. 2. 5. 3. 1. 6.
	E C L A H	FL0	1 24	463	206	249	678	1150	1585	390		747	347	oo ur no
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		5-21.04												
	3	SA COUNT	3N/0  w-20H02 M  09/27/66	13N/01w-36Un> m 09/27/66 5050	13N/02₩-13HA1 M n9/27/66 5050	13N/02#-15001 ™ 09/27/66 5050	j3N/n2*-24L01 * r9/27/66 5050	13N/02*-29R01 M 19/27/6b 5050	14N/01₩-02D01 ™ 09/27/66 5050	16N/01*-29J01 %	16N/02*-04H01 M	16N/02W-255002 M 09/27/66 5050	17N/01w-06R01 % n9/27/66 5050	18N/02*-01€01 ^ 08/11/66 5050

MINFHAL ANALYSIS OF GROUND WATER

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ξ	la.	;	;	;	;	ï	:	:		;	;
æ	€0 <u>%</u>	;	:	;	i	;	;	;		;	1
MILLIGRAMS PER LITFR MILLÍEQUIVALENT PER LITER PERCENT REACTANCE JALUE	CF	440.4	53	4.0 4.0	101	;	63 1.78	:		. 0	7 ° ° 4 X
MILLIGRAMS PER LITFR MILLIEGUIVALENT PER P PERCENT REACTANCE JA	\$OS	9.5	4 . 100	4.00	96	;	;	:		;	;
GRAMS FEQUIVA	1001	1	247	316 5.18	;	1	;	262		124	~
MILL	C03	;	13	111	:	:	;	0 0		0.0	1.04
15 IN	¥	1	;	;	;	1	:	;		;	;
MINERAL CONSTITUENTS IN	۷ ع	2.70	114	2.70	13+	;	60 2.61	:		- ·	1,0,1
L C0N	мG	;	;	1	;	;	1	:		!	;
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EC LAB	FLO	9 0 E	610	852	1040	1 4	625	4.91		274	7 4 7
1 2 1	Ft. D	π π	8.7	r r	0	1	oc.	æ. • 3		* E	7
TE 1P	5-21.04	1	1	1	1	;	;	1	5 21.05	1	}
3	TIME SAMPLER COLUSA COUNTY	13N/12x-22601 M 19/27/66	14N/11W-12An1 W	15N/02W-32R01 ₩ 09/27/66	15N/04*-25P01 x 09/27/60	16N/02W-35H01 M	16N/03w=n9N01 M	17N/12w-12C01 v n9/27/66	SUTTER COUNTY	16NZ03E-04F01 4 06Z09Z66	15N/01r=15H+1 06/09/46

TABLE E 1

MINEMAL ANALYSIS OF GROUND WATER

	ı V		328 43	195	348	0	281	228	316	333 127	139	375 100	480 353	310
LITER	SUM		ŧ	;	;	:	;	:	;	;	:	:	;	:
MILLIGRAMS PER LITER	5018		;	:	;	:	;	:	;	:	;	:	:	:
LIGHAN	r		;	:	;	;	:	1	1	;	:	:	1	;
۸1۲	<b>L</b> L		;	1	;	;	;	;	1	;	:	;	1	:
r	Eun.		:	;	5	;	;	;	;	:	:	;	;	:
MILLIGHAMS PER LITER MILLIFULVALENT PER LITER			1.27	2.4.	.73	4.5 50.7	15	4.0	158	91	5.5	96	276 1.78	1.86
14 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	504 504 504		;	;	1	;	:	;	1	1	1	;	:	;
MILLIGHAMS PER LITER MILLIFULINALENT PER L	PERCENT REACTANCE VALUE UNA MCUA SO4 CL		311	242	4.71	102	363	273 4.44	209	3.69	154 2.13	2 4 6 . 4	147	384
M11-L1	CU.		5 0 6	1.03	1.7	0 • 0	0.0		13	13	0.6.	, i	4.0 •13	13
2 0	ć		;	;	;	1	:	;	;	1	:	:	:	:
MINERAL CONSTITUTIONS IN	2		- ¢	5.35	2. Z.		2.	1.43	25.5	5.5	2.5	, , , , , , , , , , , , , , , , , , ,	2.7.	1 4 4
CUU3	413		:	;	1	;	1	;	1	;	;	1	1	;
M No. D.	CA		1	;	;	1	;	;	!	;	;	1	;	1
	7 - Z		5	264	ž,	۲۲،	τ 	114	4 1 1	25.4	9	7 7 7	1 400	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
j.	F. C.		r c	ř.	ř.	r r	T.	r r	r.	7.0	۶. د.	ř	r t	r.
,	<u> </u>	5 21.05	1	1	;	;	;	;	;	;	1	;	;	:
WFLI	DATE SAMPLES	SUTTER COUNTY	15N/91E=352 K	15NZA2E-26042 A A6Z04Z66	15N/03t-04C N	15N/03E+23C11 06/17/85	14N/A1E-01A31 67 A6/13/66	14N/0]F=24N-1 1 06/13/50	14NZ03E-03C02 1 06Z10Z66	441/A3E=A5403 % A6/10/55	14N/A3r=14E02 = A6/1A/65	14N/03E-15HOT - C6/10/55	14N/A3t-1556(2 9	13M/03£-10M02 M 05/19/46 5uqo

TABLE E

STATE WELL WINNER		ĭ	ŗ	4 1 11 E H A	C 00 N	MINEMAL CONSTITUENTS IN	2 2	MILLI	MILLIGHAMS PER LITER MILLIFUDIVALENI PER L	7 X 7	MILLIGHAMS PER LITER MILLIFUDIVALENI PER LITER	r	IJω	LIGHA	MILLIUHAMS PER LITER	LITER	
DATE LAA TIME SAMPLEM	J. M.	L A H	1 44 FLD	CA	316	<b>4</b> 2	¥	PFHCENT ME	⋖	C LANCE S 14			Ls.	ı	5102	TOS SUM	i S
SUTTER COUNTY	5 21.05																
14N/03E-28K31 № 05/19/66 5000	;	ř	1400	1	1	\$ 1. 1.	;	0.0	12.5	1	1000 145	:	;	1	:	:	515
12N/02E-09BJ2 M 06/13/66	;	r r	794	1	;	121	;	÷ .	3.42	;	1.46	;	;	;	:	:	0
12N/02F-11No1 M 06/13/66	;	ř	1330	1	}	2 5 5 C 2 5	;	22.	3.72	:	T T T	;	;	;	;	;	911
12N/02F-14H01 M 06/13/66	;	r.	0.034	;	1	57.2 24.42	;	0.6 0.E.	45.5	1	1320	:	;	1	;	;	800 639
12N/02t=16H31 M 06/13/66	;	÷	0.0 1050	1	;	1	:	÷	375 6.15	;	119	:	;	1	;	;	143
12N/02E-23401 M N6/13/66	1	ř	<b>₹</b>	;	;	17.1	;	25.	230	;	121	t	;	1	;	;	103
12N/02E=26A11 N 06/13/66	i	r.	1120	1	;	- ÷	;	± 4	253 4•15	1	,10 ,.92	1	;	:	;	:	105
12N/03E-26M01 -	;	r t	ĭ	:	1	3.14	;	- ţ	174	1	164	;	;	;	:	;	253 A1
11N/03E-24Dal 0 06/19/46	;	r r	503	:	;	, , , ,	1	уч. 4 од	زر. 12.	;	- T	;	:	1	;	;	135
11NZ04E-09001 N 05/17/66 5:00	;	r	R.	1	;	. c. T.	;	0.0	210 3.44	;	16	;	;	;	;	;	148
11N/04E-23Pnj - 05/17/66 5nnn	;	~ ±	305	;	1	>* 1.0.4	;	0.0	150	;	2 7 5	;	1	;	:	:	\$ 0
11N/04E-25Put at 05/17/66 5x06 1145	;	÷.	445	1	;	₹ ₫	1	c c	156	;	15.	ł	;	1	;	;	107

TABLE E 1

ATHEMAL ANALYSIS OF GROTING WATER

								Ξ	MILL LISEAMS PER LITER	E -	Y						
STATE WELL SHAREM HATE LOSA TIME SAMPLEN	÷	1 2 1	F C F C F C F C F C F C F C F C F C F C	A INE KA	t CUNS	MINEMAL CONSTITUENTS IN		MTLL 1F PF KCES CO3	MILLIFUDIVALENT PER LITT PERCENT REACTAIGE VALUE 03 HG03 SO4 CL	E-1 Pr. 14 JCE 504	MILLIFULIVALENT PER LITER PERCENT MEAGIA (CE VALOF 03 HG03 SO4 CL NO	a Ž	MILL	MILLIGHAMS PER H SI02		LITER TDS T SUM N	I U
E C	5 21.05																
11NZA4F-35JA1 W 05/17/65 Saga 11H0	;	™ * L	<b>₹</b>	;	;	301	;	0.0	142	;	15.	;	1	;	1	<b>;</b>	0
10×7048-01D01 05/17/45 5:0 1115	1	r	101	1	;	- * * * *	1	5.0	138 2.26	1	\$ X	:	;	3	1	1	88
SACRAMENTO COUNTY	5 21.08																
09/792-27/4 03/23/65 1200	1	?.	017	۲. در . در د	7 7 7 - 7 7	 	1.7	0.00	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 • • ⇒ ν ¬ ¬	12 .34 15	1 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 +	1	0.0	1	166	63
YOLO COUNTY	5 21.09																
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19V/01*=27C 1 (3/15/60 5:00:0	1	τ. ε	ۍ ۲	4	3. 3.4.4.4. 3.4.4.4.4.4.4.4.4.4.4.4.4.4.	30.5	0,7	c •	747	2	5 5 4 2 3	0.6 .10	1	1.4	m m	371 2	18
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SAN JOAQUIN COUNTY	5 22.01																
04N705E-11N31 4 N5Z25Z66 5:00 1300	}	r.	308	1.30	- r v	₹ <del>*</del> †	1.1	0 0	\$ <del>*</del> * ~		\$ X &	£ : N	t 7	0.1	;	192	108
04N705t-17Mn2 3 05/25/46 5000 1330	;	3.		1.4.	1,	* £ £ £	- - - -	0.0	3.77	.01	101	* ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	1	2.0	1	342	143
04NZ05F=25Pull 05Z2ZZF6 5000 1200	1	30 31	£	7 5 5	, 2, 2, 4 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4	101 4.61 103	√.1 √.0.8	0 0 0	, , , , , , , , , , , , , , , , , , ,	5 5 1	∴ ∓ ~ - ~	3 . t	;	0.1	;	630 528	266
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TABLE E 1

MINERAL ANALYSIS OF GROUND WATER

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ER LITER TOS SUM		619 597	781			•	;	1	;	;	;	•
AMS PE		i	1			1	1	1	1	;	:	:
MILLIGRAMS PER B SI02		0.5	7.0			;	1	1	;	;	1	;
Ē		;	;			;	1	;	;	1	1	;
TEN NO.3		2. 4 7 : 1	19 .31 3			;	:	1	:	:	;	;
MILLIEUUIVALENI PEH LIT PERCENI REACIAMCE VALUE U3 HCO3 SU4 CL		10H 3.05 31	159			4.6	1.2	10.3	6.0	1.2	0.1	.04
CIAMCE SO4		200 4.15	230 4.74 3.4			;	;	;	;	;	:	;
MILLIEUUIVALENI PE⊬ LITEM PFRCENI REACIA™CE VALUE U3 HCO3 SU4 CL M		157 75.5 26	155 2,54 21			1.05	0 4 6 0 6	, y y	47.	65 14.	1.	45 27.
MILLI PF RCE		0.0	0.0			0.0	0.0	0.0	0 • 0	0	o • c	0.0
<u>z</u> _ ∠		5.0 •13	3.0 .08 1			;	1	1	:	;	;	1
MINEHAL CONSTITUENTS IN CA NG NA K		12.0	136 5.42 5.4			6 • 3 •		5.4	£ 2.	6.1	5.	α 
L CUUS		, , , , , , , , , , , , , , , , , , ,	1.02			;	;	;	;	3	1	;
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7.	5 22.01	;	1	00.0 9	6 5.01	;	;	1	;	;	1	;
STATE WELL GUMMEN DATE LOST	SAN JOAQUIN COUNTY	625706t-30M31 d 65799745 5398 1500	035/04E-05E 06/09/66 5400 1030	LAHONTAN REGION	SOUTH TAHOE VALLEY	12N/185-03AC1 (4) N6/22/64	]2N/]HL-n3C/  H n6/22/6h	]2N/]8E-n3Fn] d n6/22/66	12N/14E-03JN1 M 06/22/66	12N/18E-05La1 P 06/22/06	12N/14t-05P11 % 06/22/n6	12N/18t-24L+1 1 n6/22/mo

I I O F Z		35	50	:	1	r °	\$ 0 0	111	:	;	1	160	1100
LITER TOS SUM		274 208	135	:	;	152	92	158	;	;	;	243	365
		:	:	;	:	;	:	1	:	1	1	1	1
MILLIGRAMS PER H SIO2		0	0.1	;	:	0.3	0.1	0.0	:	1	;	0 • 0	8. 3.
411.1		;	;	;	;	;	:	;	;	;	ŀ	;	;
α Ξ.		0.4	1.9 .03	;	;	5.0	0.6 .01	.01	:	:	:	3.9	1.3
H LITER VALUE GL N		14 8 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.8 .02	:	;	5.7 .16	0.8 .02	1.7 .05	;	;	:	4,3 .12	73 2.06 31
PER LITE LENI PER LIANCE V SJ4 G		73 1.52 45	3.1 .06 3	;	;	25. 84. 82.	2.0 •0.0 3	9.5 7	:	;	:	0,14	1.5
MILLIGHAMS PER LITER MILLIFUNIVALENT PER LITER PERCENT PERLIANCE VALUE (03 MCO3 SJ4 CL N		84 1,38	130 2.13 95	:	;	1 9 4 6 8 8	84 1.38 95	148 2.43 90	;	;	;	232 3.80 84	272
MILLIGH MILLIFG PERCENI CO3 MC		0.0	C • 0	;	:	2.0 .0.7 .0.3	0.0	0 • 0	:	;	;	0 • 0	0 • 0
C		2.1 .05 1	1,3 ,03	;	1	0. 4.01	0.6 .02 1	0.8 0.2 1	:	;	1	9.0	0.3
[ FUENIS		202.2	.57 25.	:	:	43 1.87 83	6.2 13.	52.	;	;	:	1.22	146
CONST		3.6 30 4	4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	;	;	1.0.4	3.5	8.1 .67 24	;	;	;	11 .90 20	0.05 0.05
MINEPAL CONSTITUENTS IN CA MG NA N		8 . 1 . 4 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5	1.20	;	;	5.4	÷ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 1.55 56	1	1	1	2.30	3.4
FC Μ]		344	210	217	31.7	227	138	258	22.1	331	25.0	613	572
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ž		;	;	1	1	1	;	;	1	;	1	1	1
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VELL MUMMI LAM SAMPLEM	SURPRISE VALLEY	39N/17E-05D01 0	40N/16E-11G01 M	40N/16E-13R01 4	40N/16E-36F01 4	41N/16E-25C03 M 08/30/66 5050	41N/16E-35002 4 08/30/66 5050	42N/16E-06R02 3 08/30/66 5050	42N/16E-21L01 M 08/30/66	42N/16E-34F01 ™ 08/30/66	43×16E-20HU1 08/30/66		44N/16E-06E02 M 08/30/66 5050
STATE WELL WUMMEP DATF LAW TIME SAMPLEM	SURPRI	394/1 08/30	*0N/1	40N/16E- 08/30/66	40N/16E-	41N/1	41N/1	42N/1	42N/15E+ 08/30/66	42N/16E-	43N/16E- 08/30/65	43N/16E-3 08/30/66	44N/ 08/30
J, F													

MINERAL ANALYSIS OF GROUND WATER

	I O		0 0	;	;	156	58.00	:		:	100 5:	;	;		
ER LI	TOS SUM		<b>24</b> 1 180			303	182				156				
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FER	JE NO3		4 • 0 0 0 N	10.5	:	0.6	. 0	1		;	4. 80. 8	;	1	1	
TER LI	כר כר		0.9	;	;	.28 5	.26 .26 10	:		;	3.7	;	1	}	
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IGRAMS IFQUIV	ENT RE/		193 3.17 95	:	;	277 4.54 85	118	;		:	132 2.16 92	}			
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IS IN	¥		10. 03	1	:	2.5 .06 1	3.7	;		;	4. 6. 12.	:		;	
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		6-1.00							6-2.00				6-3.00		
STATE WELL NIMAGE	DATE LAS	SURPRISE VALLEY	44×7165-79vn1 n8/3n/65 5vsn	45N/16E-17N/1 M 08/3N/66 505A	45N/16F=19401 ~ 08/30/66 5040	46%/16E-13C01 % 08/30/66 5050	46N/16E-14201 A 08/30/65 5950	46N716F-29EU) ** iR/30/66	MADELINE PLAINS	34N/14E=23F01 M FR/22/64	<b>35</b> 2/14E-15411 4 GH/22/66 5090	1957/16F-19F7] √ 18722/66 5040	WILLOW CREEK VALLEY		

MINEMAL ANALYSIS OF GROUAD WATER

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	F)	1	1	:	.01	16 26 8	4 m	;	1	111.	1	;	ł
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PEH LI	700	;	1	1	1.52	5.3 .11	;	;	;	12° v	;	1	1
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MILL PERC	5	0	;	;	0 • 0	0 • 0	1	;	:	0 • 0	1	;	1
I S I N	c	;	:	;	1.5 .04 1	4.0 .10	1	1	1	1.3 .03 1	;	1	î î
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7	0-1-9	ъ Э	1 3	1	;	1	1	;	1	1	;	1	;
STATE WELL NIMMER DATE LAND FO	FAK	22N/17E=04K01 "	25N/17E=21ND3 M 08/24/60	26N/15F-03F0} 4	26N/16E-15EU1 4	27%/14F=16C01 4 08/24/60 5050	27N/14E-26E01 4 08/24/66	28N/13E=09E01 4 08/23/66	78N/14F=02G01 4 08/23/45	28W/14E+17Hg1 1	28N/17F-18K01 4 08/24/65	28W/17E-20J01 M	29N/12F=04601 4 08/29/66

TABLE E 1

MINERAL ANALYSIS OF GROUND WATER

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LITER	SUM	i	;	;	:	;	:	597 523	:	1280 1255	:	:	:	96
4S PER	2018	1	}	1	;	1	:	;	;	;	:	:	;	:
MILLIGRAMS PER	œ		}	0.7	+	1	1	4.0	1:1	2.0	7.0	;	:	0.1
¥	L.	1	}	5.5	;	;	i	:	i	;	4.0	:	;	:
CK Na.	E ON		1	;	:	1.16	:	6.9	1	102 1.54	53.	;	1	0.0
TER ER LIT	CL	9	11.	:	Î	;	:	. 7.1 8	:	40 1.13	;	:	:	5.0 0.0 5.03
MILLIGRAMS PER LITER MILLIEGUIVALENI PER LITER PRINCENT OLICIANOS UNIUS	504	;	}	;	:	;	:	161 3.35 39	:	430 8.34 46	;	:	;	0.0
GRAMS EQUIVA	HCO3	103	2,02	:	:	;	;	273 4.48 52	:	445 7.30 37	1	i	:	113 1.85 98
MILLI	C03	•		ì	*	;	;	0.0	:	18 .60 w	;	1	;	0.0
ATS IN	×		1	;	;	i	;	2.¢ •06 1	;	0.2	:	:	;	2.0 9.0 9.0 9.0
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IL CONS	9 14	9	. 24	:	1	;	;	n . • 4 • • w	1	1.06.	:	1	;	9.69 37
4 INER	CA	ſ	1.50	;	;	1	;	4.60	;	1.30	:	:	;	17. 24.
EC	F LD	6	-	85.58	1 5	576	102	891	1175	1911	1 96	, g	323	190
å.	<b>L</b> AH		í	:	1	:	1	7.9	1	æ •	;	:	;	æ.
•	F. ₹	ı	;	;	1	1	1	1	;	1	;	1	1	1
		00.4-9												
* F L	DATE LAY TIME SAMPLER	HONEY LAKE VALLEY	29N/125-13401 M 08/24/60	29N/13E-01N01 ™ 08/23/66	29N/13€=06K01 M 08/25/66	29N/135-14601 M 08/23/66	291/14E-04101 M	29N/14E-10E01 ™ 08/23/66 5050	290×14€-18801 ™ 08/23/66	29N/14E-19402 M NB/23/66 5050	294/15E-21N01 4 08/24/66	29N/15€-30402 ™ ∩8/24/66	29∿/16E-30L01 ™ 08/24/66	30N/12E-33N02 M 08/25/66 5050

					!													
STAFF WELL VINEE TO DATE TIME TANKER	<u>.</u>	7 7 7 1 1 2 2	7 - 7 7 4 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MI-UF-VAL CA	, CUNS	MINERAL CUNSTITUENTS IN		MILLIF PFRCER	MILLIGHAMS PEH LITER MILLIEUUIVALENI PEH LITER PERCENT MEACIANCE VALUE 103 MCO3 SU4 CL N	EN LI	THE LATE	a S €	*11L	MILLIGRAMS PER LITER TDS H SIOZ SUM	MS PER		I Z	
VORTH TAHOE VALLEY	6 5.02																	
16N/16t-24E.1 .4 06/23/40	;	÷.	~ 1 ~	1	1	5	;	0.0	0.0	;	.06	;	;	;	;	;	06	
16N/16E-32D01 06/23/68	;	· .	₹ 5	1	1	د ۲۰	1	0.0	76 25.1	;	.10	;	1	:	;	;	28	
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16N/17F=13H=1 11 06/23/86	;	7.1	1 4	;	;	£ .	1	0.0	1 0 . 1	;	6.0.	1	;	1	ŀ	;	51	
16WZI7E-14HH1 4	1	٠ •	2	1	1	1 4	1	0.0	147	;	2 2	;	;	:	;	;	109	
16N/17E-14C+1 C6/23/66	;	r •	>14	;	;	1 4	1	.13	2.69	;	, <u>.</u>	;	;	:	;	ŀ	123	
15N/16E-24A-1 01 06/23/66	1	*	1 1 4	1	1	4 · · · · · · · · · · · · · · · · · · ·	1	0.0		;	~	;	1	:	;	;	0	
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14N/16F-01K01 A 06/23/66	1	7.1	3	1	;	2.0.	l	0 • 0		;	0•1	;	1	;	;	;	000	

STATE MELL MUMMEH DATE LEA TIME SAMPLEM	45.47	r r r L D H	EC LAH FLU	INERAL	CONST	MINERAL CONSTITUENTS IN CA MG NA K	0	MILLIG MILLIF PERCEN 03 B	MILLIGHAMS PER LITER MILLEGUIVALENI PER LITE PERCENI HEACIAUCE, VALUE CO3. HCO3. SO4. CL.	EUCE	-	<u>~</u>	MILL F	I SHAMS	MILLIURAMS PER LITER TOS A SIOZ SUM		I O
CARSON VALLEY	00.9 9																
11N/19k-35012 P	1	7.0	121	1	;	† ` ~ œ	1	0 • 0	50.1	1	1.0	;	;	:	:	:	0 0
11N/19E-35Kal M 06/21/66	1	r r	Š	1	;	1.9	;	Ð • Ð	\$ 5	;	. 0 .	;	;	;	;	;	37
11N/20E-07Mpl -4 06/21/60	1	°	0 % [	1	;	. 3.	;	0.0	4 T C	1	. 1 .	1	1	1	1	;	53 13
TOPAZ VALLEY	00.7 9																
09N/22E-24D1 M 06/21/66	1	ř	<u>-</u>	;	;	- t	i	0.0	107	1	4. U.	1	1	:	;	:	5.1
09N/22E-24MJ] M 06/26/66	1	\$ *	754	1	;	1,	;	0 • 0	114	;	1.7	;	1	1	;	:	0
n9N/23E-20Paj M 06/21/66	1	5	550	;	;	. 7.	;	0 • 0	130 2.45	}	.0.	!	1	;	;	:	122
09N/23E-30Cn2 d 06/21/6h	;	* *	33.9	;	;	· · ·	:	. 0	1.40	}	34	;	1	;	:	;	A 0
08N/23E-16Pal M 06/21/66	1	ž.	£ 4	;	1	24	;	4.0	134	:	1 20.	;	1	1	;	:	ά 4 0
n8N/23E-28En3 M 06/21/66	:	∿ r	295	;	;	34	;	0 • 0	27.	:	15	ì	1	ŀ	;	;	50
r8N/23E-29C12 M 06/21/66	;	ς χ	172	1	;	* * *	:	0.0	54	1		;	1	;	;	;	w o

TABLE E 1

TABLE E 1

MINEMAL AWAITSIS HE GHODIND WATER

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	;	•	:	:	;	1		:	;	;	:
SIO2	:	;	:	:	;	;		*	;	;	;
MILLIGHAMS PEH LITER TOS H SIOZ SUM	;	1	1	1	;	;		:	;	1	1
π 1	!	1	:	;	:	1		1	1	1	1
x Ž	;	:	1	1	;	;		;	1	;	}
IFF CALUF	4.5	1.0	× × ×	5.0.	~ ~ • ~	1.36		t	1.2	25. 25.	74.
EM LITANCE PESON	;	;	:	;	:	;		;	;	1	;
MILLISHAMS PEN LITER MILLE JUIVALENT PEN LITER PERCENT REACTANCE VALUE (UR HCOB SOL CL AL	<u>:</u>	234 4.84	133	, , , ,	27.5	505 4.44		24.	3. 3.1 1. 3.1	1.00	
MILLI MILLI WENCE CO3 F	0.0	. ÷ %	4 · ·	0.0	0.5	9.50		0.0	0	÷	0.0
	1	1	1	i	1	1		:	1	;	†
HAPPAL CONSTITUENTS IN CA My NA K		÷ ;	≥¢ 1•0•	* *	1.1.	541		6.10	5. t.	; ~.	1.5
C.C.C.S.	1	\$	1	;	;	1		1	;	;	;
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151	- r	x. 7	r,	1.1	4.4	- - -		٠.,	*	· x	,
1, 16	;	1	;	!	;	;	00.79 9	;	;	;	1
STATE APLE CONTROL OF TAMES TIME SAMMED.  BRIDGEPORT VALLEY	05N/24F+29G 11 M 06/21/66	115N/25k-26kal . 06/21/48	05N/24t-24311 .	04N/24E=[3F:1F:06/20/65	048/254-14811 ·	748/296-136-13 14/21/45	TRUCKEE VALLEY	17N/16E-24N   06/23/88	170/[AF=14F]	1/N/14F=1AL 1 FA/24/AB	1767154-174-11

TABLE E-2
TRACE ELEMENT ANALYSES OF GROUND WATER
NORTHEASTERN CALIFORNIA

				Constitue	ents in part	s per milli	on	
State Well Number	Date	ΑI	As	Cu	Fe (Total)	Pb	Mn	Zn

		Surpris	e Valley	(6-1.0	<u>o</u> )			
4 <b>LN-16E-2</b> 5C3	8-30-66		0.02					
41N-16E-35D2	8-30-66		0.00					
42N-16E-6R2	8-30-66		0.00					
42N-16E-34F1	8-30-66		0.00					
43N-16E-20B1	8-30-66		0.00					
43N-16E-33M <b>3</b>	8-30-66		0.00					
44N-16E-6E2	8-30-66		0.01					
44 <b>n-1</b> 6 <b>E-</b> 29 <b>n</b> 1	8-30-66		0.01		0.08			
45 <b>N-1</b> 6E-17D1	8-30-66		0.00		0.03			
45 <b>N-</b> 16 <b>E-</b> 19Q1	8-30-66		0.01		0.05	0.01		
46 <b>n-1</b> 6 <b>E-1</b> 3C1	8-30-66		0.00					
46 <b>n-16e-1</b> 4R1	8-30-66		0.01'					
46 <b>n-</b> 16 <b>e-2</b> 9 <b>e</b> 1	8-30-66		0.00				0.01	
	1	Madeline	Dlains	(6 2 m)	١			
25N 16B 10B1					-		0.30	
35N-16E-19F1	0-22-00	0.46	0.00	0.00	0.23	0.00	0.12	0.00
	He	oney Lake	e Valley	(6-4.00	<u>)</u> )			
22N-17E-4K1	7.5-66		0.00					
26 <b>n-</b> 16 <b>E-</b> 15 <b>E</b> 1	8-24-66		0.01				0.00	
27N-14E-26E1	8-24-66		0.00			0.00	0.00	
28 <b>N-</b> 14 <b>E-1</b> 7Bl	8-23-66		0.01			0.00		
29N-12E-4G1	8-25-66		0.02				0.05	
29N-13E-1N1	8-23-66		0.07					
			1.56					

TABLE E-2
TRACE ELEMENT ANALYSES OF GROUND WATER
NORTHEASTERN CALIFORNIA

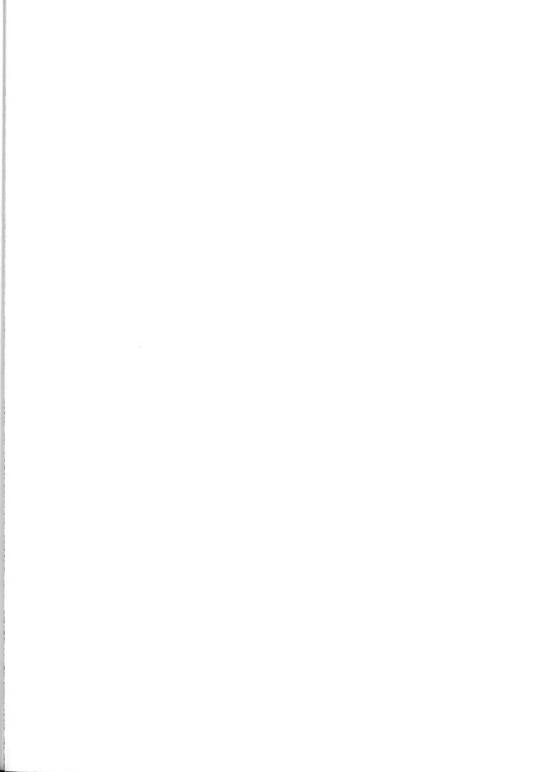
				Constitu	ents in part	s per milli	on	
State Well Number	Dote	AI	As	Cu	Fe (Total)	Pb	Mn	Zn
		Honey 1	Lake Val	lley (6	- 4.00)			
29N-13E-14G1	8-23-66		0.03					
29N-14E-4N1	8-23-66		0.02					
29N-14E-18R1	8-23-66		0.35					
29N-14E-19A2	8-23-66		0.12				0.00	
29N-15E-21N1	8-24-66		0.00				0.07	
29N-15E-30A2	8-24-66		0.00				0.07	
30N-12E-33N2	8-25-66		0.00					
	South	Fork P	it Rive	r Valley	(5-2.00	<u>o</u> )		
41N-11E-2J1	8-31-66	0.01	0.00	0.01	0.47	0.00	0.00	0.10
41N-13E-18P1	8-29-66		0.02		0.26	0.00		
42N-13E-32G1	8-29-66		0.01			0.00		
		Big V	Valley (	(5-4.00)				
37N-7E-13B1	8-4-66		0.00				0.00	
38N-7E-23D1	8-4-66		0.00		0.30	0.00	0.37	
38n-8 <b>e-</b> 30r1	8-4-66		0.00					
		Toll Di-	Voll	Ley (5-5	00)			
37N-5E-1C1	8-3-66	tall VI		Ley (3-3	<u>.00</u> )		0.01	
			0.00				0.01	
37N-5E-14R1	8-3-66		0.00				0.01	
37N-5E-24F1			0.00				0.00	
37N-6E-19L1	8-3-66		0.00					
37N-6E-29B1	8-3-66		0.00				0.02	
38N-3W-24F1	8-3-66		0.00				0.01	

TABLE E-2
TRACE ELEMENT ANALYSES OF GROUND WATER
NORTHEASTERN CALIFORNIA

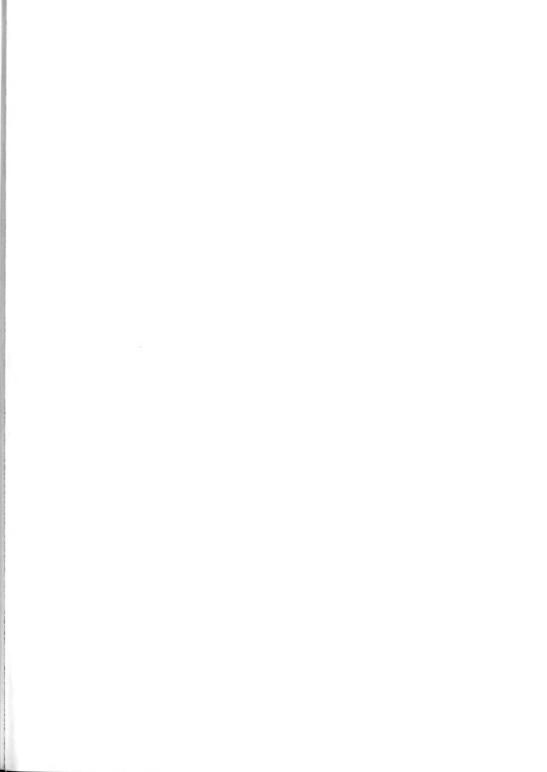
				Constitue	ents in part	s per milli	on	
State Well Number	Date	АІ	As	Cu	Fe (Total)	Pb	Mn	Zn

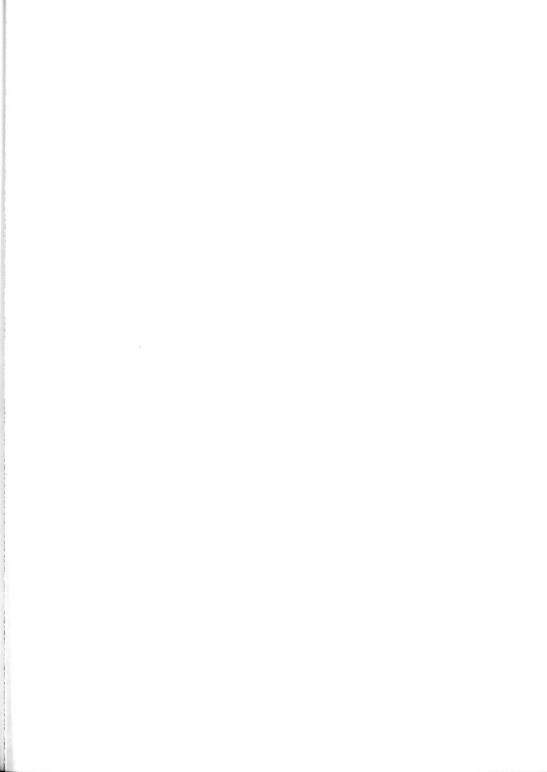
## Sacramento Valley

		Reddi	ng Basin	(5-6.00	<u>o</u> )			
31N-4W-7A1	7-27-66		0.00					
31N-5W-25K1	7-26-66	0.01	0.00	0.00	0.09	0.00	0.18	0.02
32N-3W-17E2	7-26-66	0.00	0.01	0.02	0.77	0.00	0.00	0.05
32N-3W-20P1	7-26-66	0.03	0.00	0.02	0.48	0.01	0.09	
32N-4W-14F2	7-26-66		0.00		3.9			
32N-4W-16B2	7-26-66							0.22
		Glenn (	County (	5-21.01)	<u>)</u>			
22 <b>N-</b> 3W-22Q1	7-6-66	0.00	0.00	0.00	0.02	0.00	0.00	0.00
		~ 3	~ .	(= 03 ol	. \			
		Colusa	County	(5-21.01	<u>+</u> )			
13 <b>N-</b> 1W-36Q2	9-27-66		0.00					
14N-1W-2D1	9-27-66		0.00					
14N-1W-12A1	9-27-66		0.00					
15N-2W-32R1	9-27-66		0.00					
16N-2W-25B2	9-27-66		0.01					
16N-2W-35B1	9-27-66		0.00			0.00		
16N-3W-9Nl	9-27-66		0.00					
17N-1W-6R1	9-27-66		0.01					
17N-2W-12C1	9-27-66		0.00					













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